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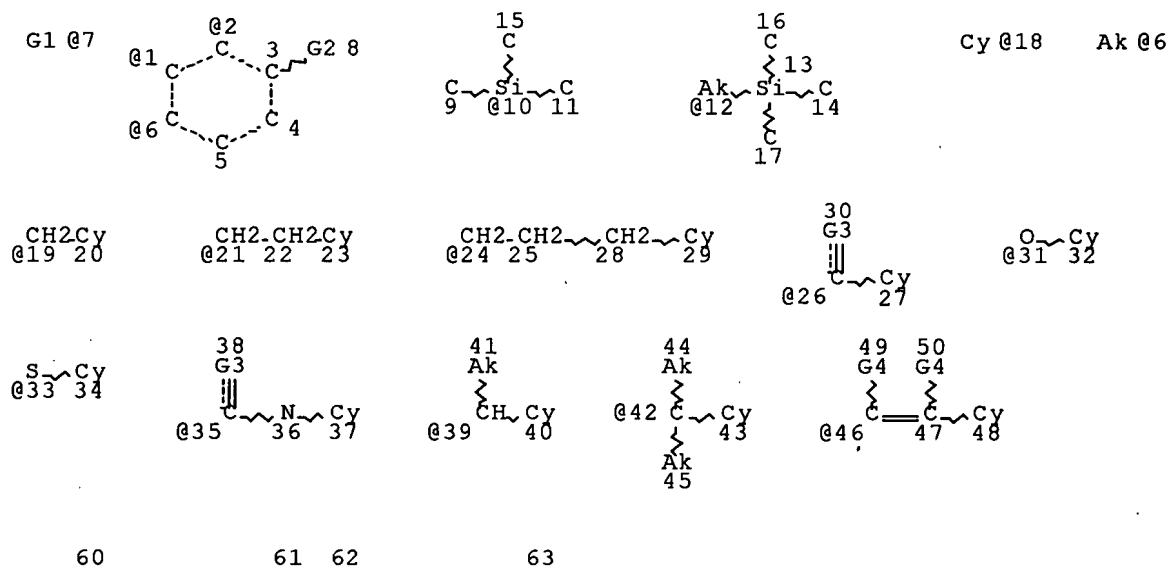
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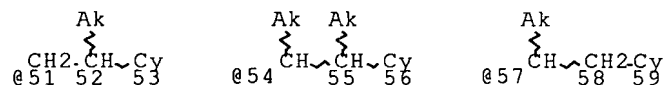
L5 STR



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Page 1-B



Page 2-A

VAR G1=10/12

VAR G2=18/19/21/24/26/31/33/35/39/42/46/51/54/57

VAR G3=O/S

VAR G4=H/64

VPA 7-2/1/6 U

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## GRAPH ATTRIBUTES:

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 NUMBER OF NODES IS 64

## STEREO ATTRIBUTES: NONE

L8 303 SEA FILE=REGISTRY SUB=L3 SSS FUL L5  
 L9 69 SEA FILE=CAPLUS ABB=ON PLU=ON L8  
 L14 56 SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND (PY<2004 OR AY<2004 OR  
 PRY<2004)

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L14 ANSWER 1 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:58218 CAPLUS Full-text

DOCUMENT NUMBER: 142:134727

TITLE: Preparation of heterocyclic substituted aryl silicon compounds and their therapeutic use

INVENTOR(S): Miller, David John; Ruprah, Parminder Kaur; Showell, Graham Andrew; Walsh, Louise Marie

PATENT ASSIGNEE(S): Amedis Pharmaceuticals Ltd., UK

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005005442	A1	20050120	WO 2004-GB2606	20040618 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				

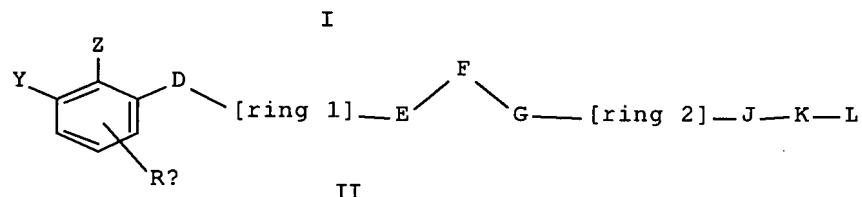
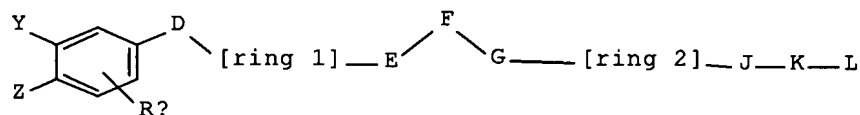
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AU 2004255912	A1	20050120	AU 2004-255912	20040618 <--
CA 2531511	A1	20050120	CA 2004-2531511	20040618 <--
EP 1644385	A1	20060412	EP 2004-742961	20040618 <--
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BR 2004012446	A	20060919	BR 2004-12446	20040618 <--
JP 2007516191	T	20070621	JP 2006-518320	20040618 <--
RU 2303595	C2	20070727	RU 2006-103991	20040618
US 2007110708	A1	20070517	US 2006-563203	20060103 <--
MX 2006PA00372	A	20060330	MX 2006-PA372	20060109 <--
IN 2006DN00256	A	20070817	IN 2006-DN256	20060113 <--

PRIORITY APPLN. INFO.:

GB 2003-16204	A	20030710 <--
GB 2004-10831	A	20040514
WO 2004-GB2606	W	20040618

OTHER SOURCE(S): CASREACT 142:134727; MARPAT 142:134727  
 GI



AB The preparation of title compds., I or II (D = (CH<sub>2</sub>)<sub>n</sub>, C:X, O, S(O)<sub>m</sub>, etc.; E = (CH<sub>2</sub>)<sub>n</sub>, organoamino, alkylenylamino, etc.; F = C:X, organoamino; G = alkylenyl, organoamino, alkylenylamino, etc.; J = O, organoamino, S(O)<sub>m</sub>, organosulfonylamino, organoaminosulfonyl, etc.; K = alkylene, cycloalkylene, arylene, heterocycloalkylene, heteroarylene, etc.; L = H, halo, organoamino, cycloalkyl, cycloalkenyl, aryl, heterocycloalkyl, heterocycloalkenyl, hydroxy, etc.; Ra = H, halo, alkyl, aryl, OH, alkoxy, NO<sub>2</sub>, CN, etc.; X = O, S; Y, Z = same or different, H, halo, alkyl, OH, alkoxy, CN, organoamino, alkylsilyl, etc.; ring 1 and 2 = same or different arylene, heteroarylene, etc.), and their therapeutic use (no data) is described. Thus, preparation of 5-[2-methyl-5-(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxyphenyl)furan-2-carboxamide is described starting from 5-amino-2-methylphenol.

IT 825652-04-8P 825652-05-9P 825652-06-0P  
 825652-07-1P 825652-08-2P 825652-09-3P  
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 825652-18-4P 825652-19-5P 825652-20-8P

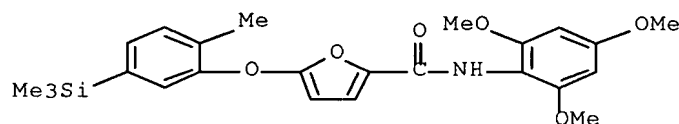
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RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic substituted aryl silicon compds. and their therapeutic use)

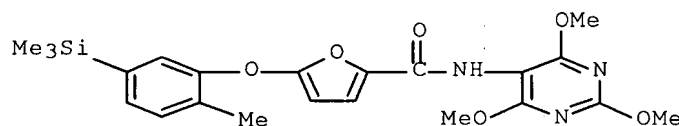
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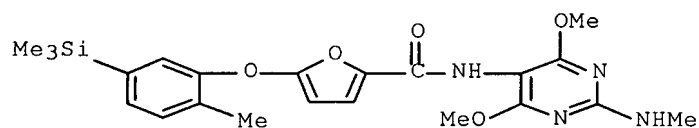
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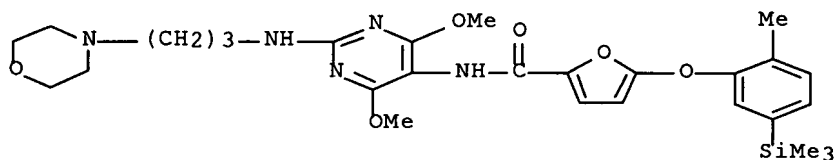
RN 825652-06-0 CAPLUS

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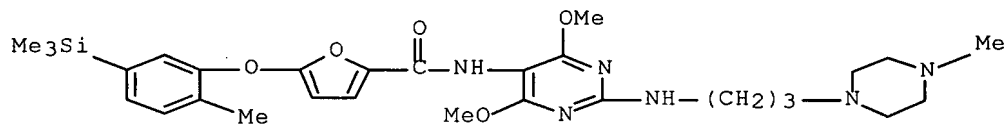
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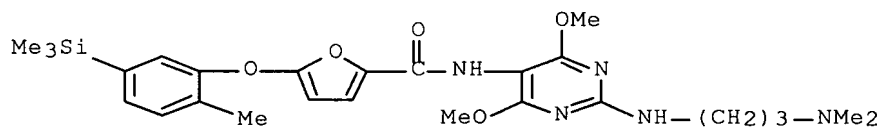
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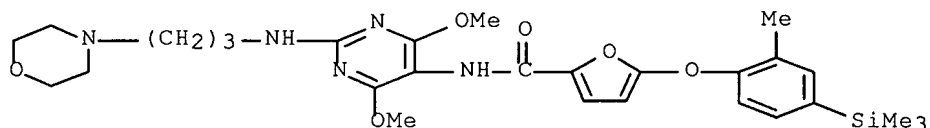
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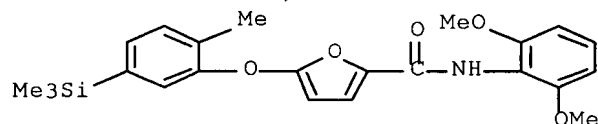
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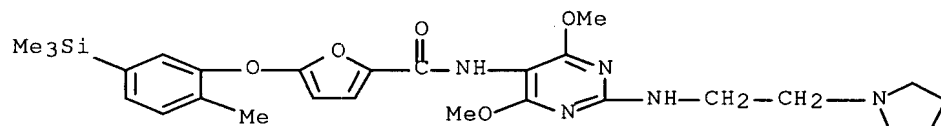
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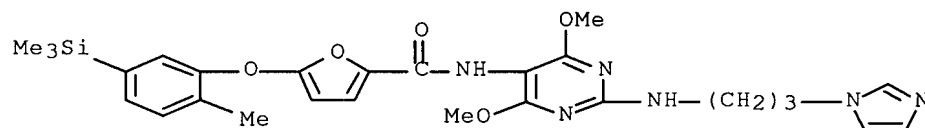
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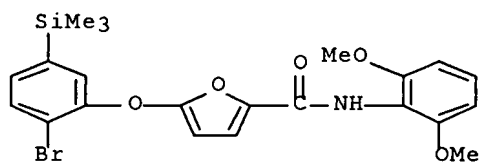
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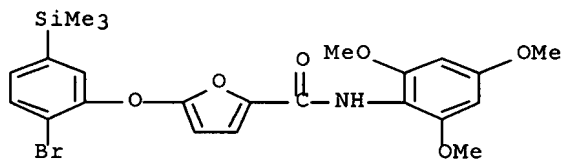
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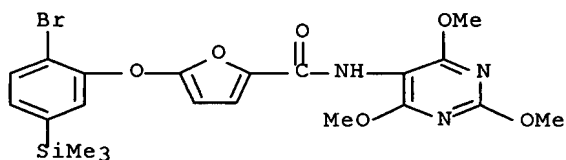
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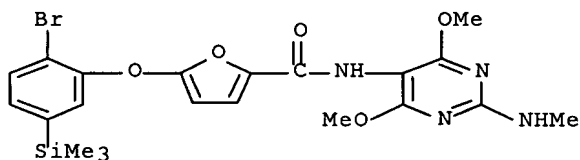
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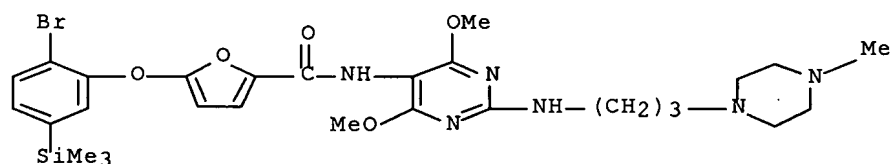
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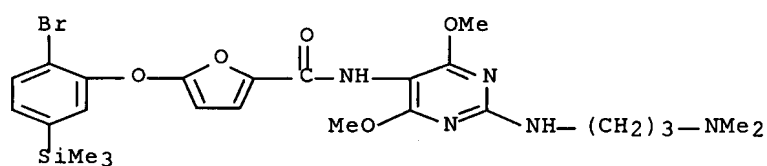
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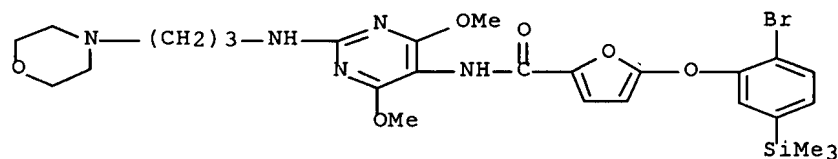
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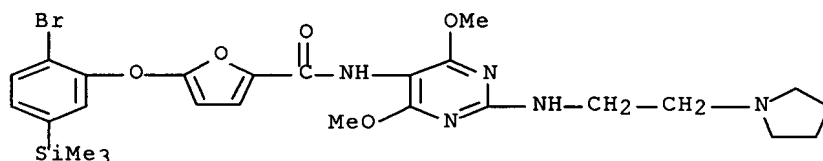
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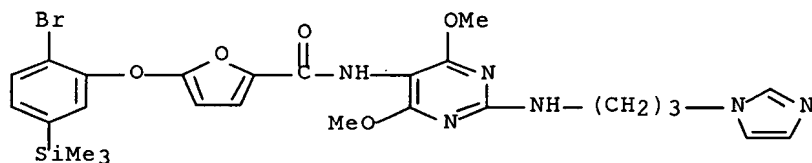
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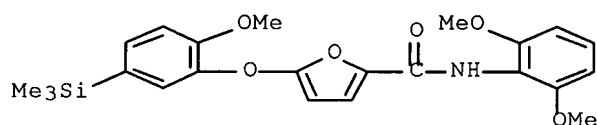
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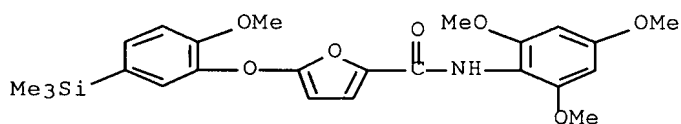
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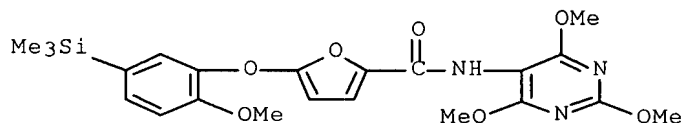
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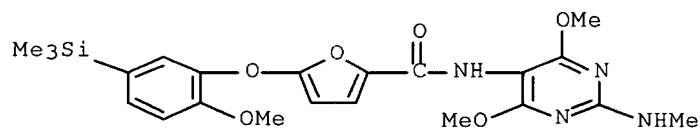
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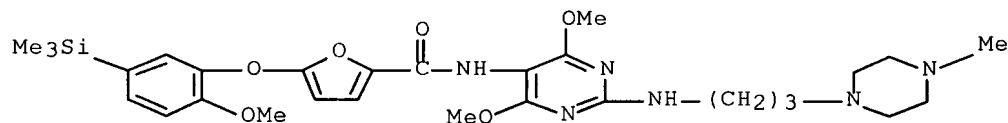
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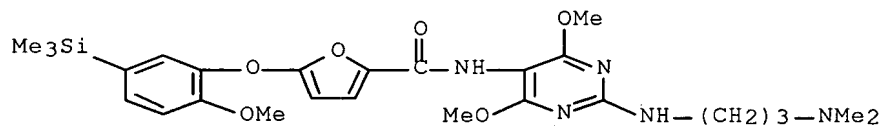
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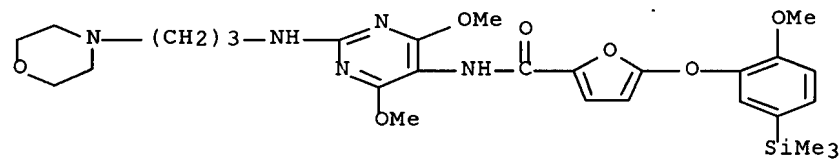
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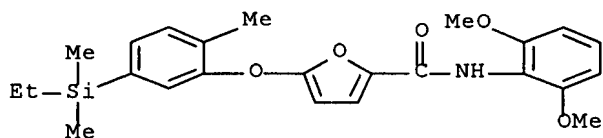
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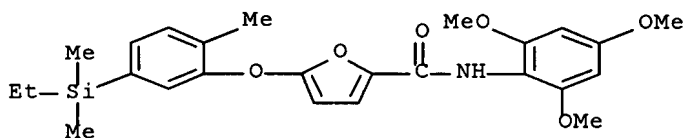
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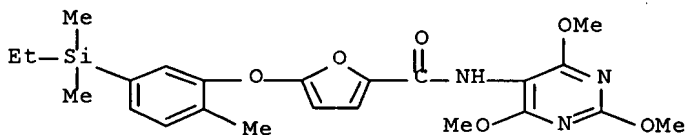
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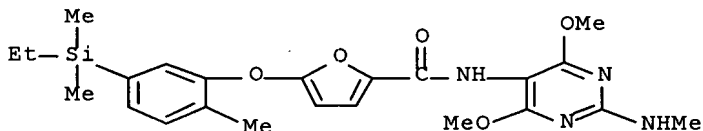
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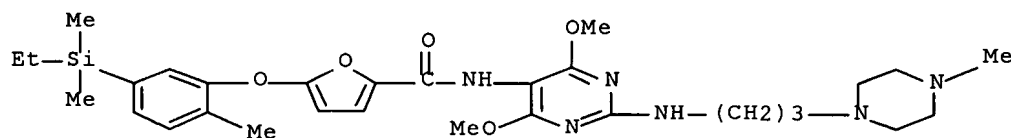
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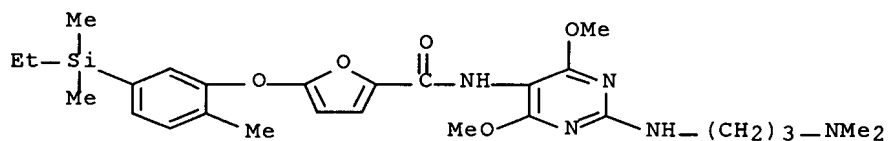
RN 825652-39-9 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]-5-[5-(ethyldimethylsilyl)-2-methylphenoxy]- (9CI) (CA INDEX NAME)



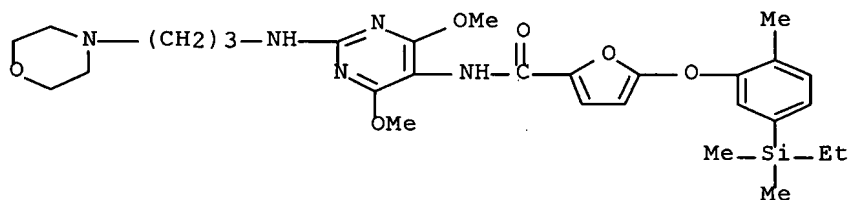
RN 825652-40-2 CAPLUS

CN 2-Furancarboxamide, N-[2-[[3-(dimethylamino)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]-5-[5-(ethyldimethylsilyl)-2-methylphenoxy]- (9CI) (CA INDEX NAME)



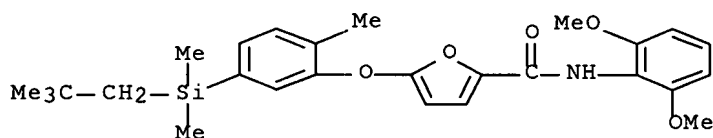
RN 825652-41-3 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-morpholinyl)propyl]amino]-5-pyrimidinyl]-5-[5-(ethyldimethylsilyl)-2-methylphenoxy]- (9CI) (CA INDEX NAME)



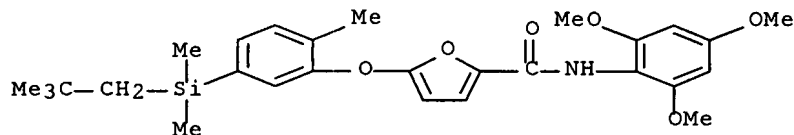
RN 825652-42-4 CAPLUS

CN 2-Furancarboxamide, N-(2,6-dimethoxyphenyl)-5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



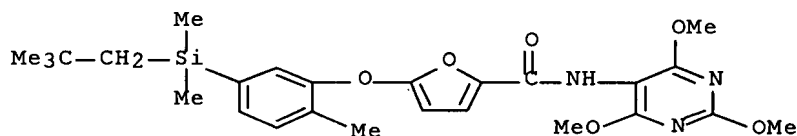
RN 825652-43-5 CAPLUS

CN 2-Furancarboxamide, 5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



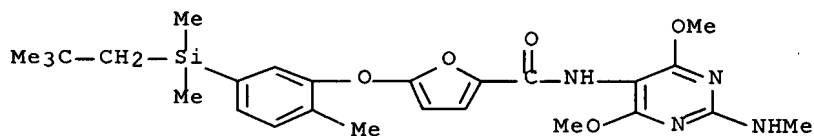
RN 825652-44-6 CAPLUS

CN 2-Furancarboxamide, 5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]-N-(2,4,6-trimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



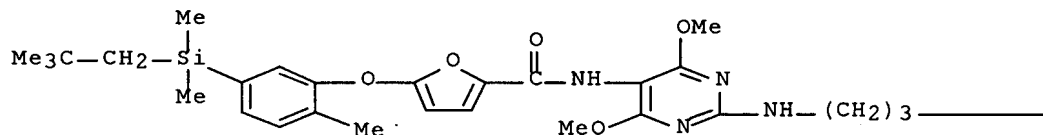
RN 825652-45-7 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-(methylamino)-5-pyrimidinyl]-5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)

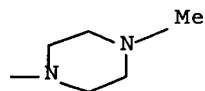


RN 825652-46-8 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]-5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)

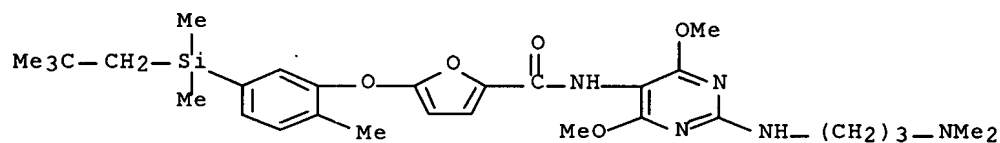


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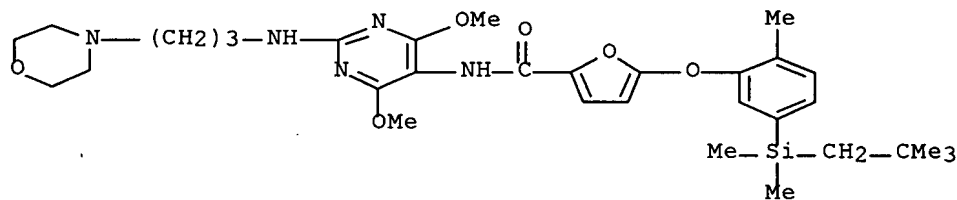
RN 825652-47-9 CAPLUS

CN 2-Furancarboxamide, N-[2-[[3-(dimethylamino)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]-5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]-(9CI) (CA INDEX NAME)



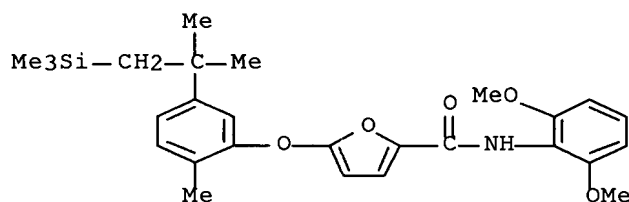
RN 825652-48-0 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-morpholinyl)propyl]amino]-5-pyrimidinyl]-5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]-(9CI) (CA INDEX NAME)



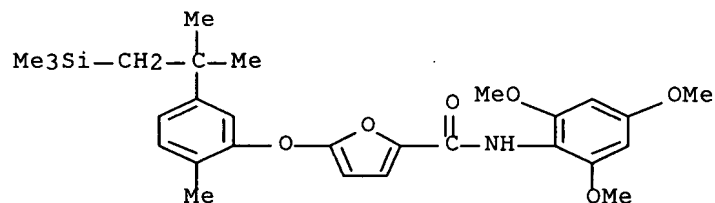
RN 825652-49-1 CAPLUS

CN 2-Furancarboxamide, N-(2,6-dimethoxyphenyl)-5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]-(9CI) (CA INDEX NAME)



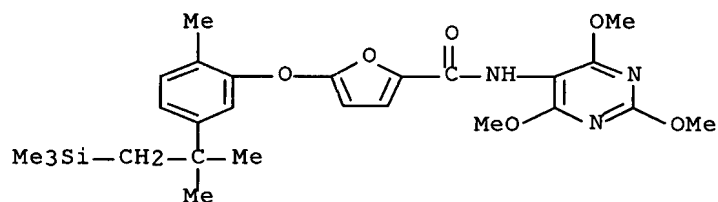
RN 825652-50-4 CAPLUS

CN 2-Furancarboxamide, 5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



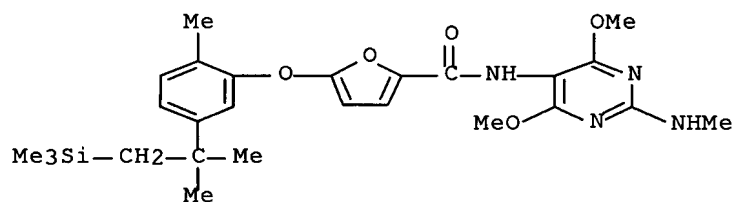
RN 825652-51-5 CAPLUS

CN 2-Furancarboxamide, 5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]-N-(2,4,6-trimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 825652-52-6 CAPLUS

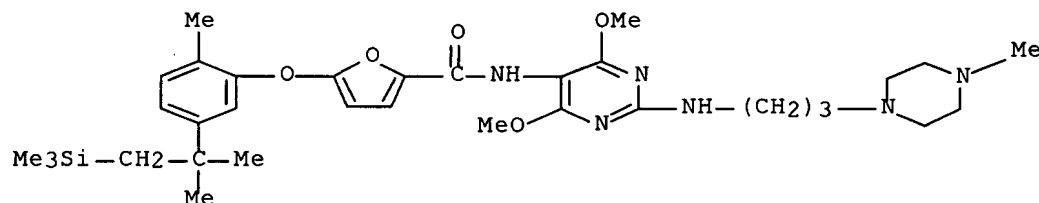
CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-(methylamino)-5-pyrimidinyl]-5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



RN 825652-53-7 CAPLUS

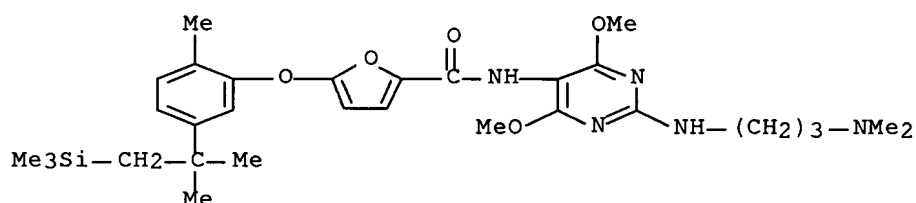
CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]-5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)





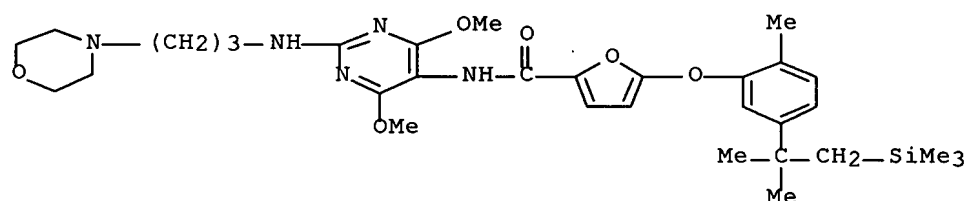
RN 825652-54-8 CAPLUS

CN 2-Furancarboxamide, N-[2-[[3-(dimethylamino)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]-5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



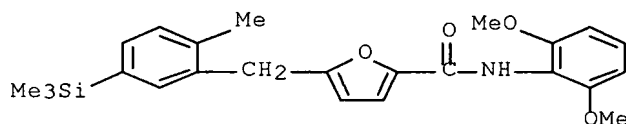
RN 825652-55-9 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-morpholinyl)propyl]amino]-5-pyrimidinyl]-5-[5-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



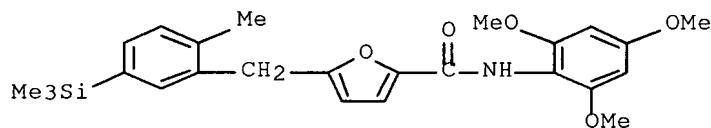
RN 825652-56-0 CAPLUS

CN 2-Furancarboxamide, N-(2,6-dimethoxyphenyl)-5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



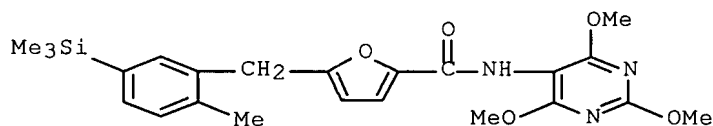
RN 825652-57-1 CAPLUS

CN 2-Furancarboxamide, 5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



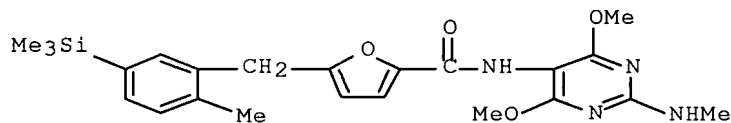
RN 825652-58-2 CAPLUS

CN 2-Furancarboxamide, 5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]-N-(2,4,6-trimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



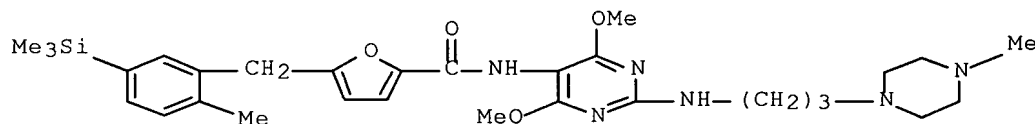
RN 825652-59-3 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-(methylamino)-5-pyrimidinyl]-5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



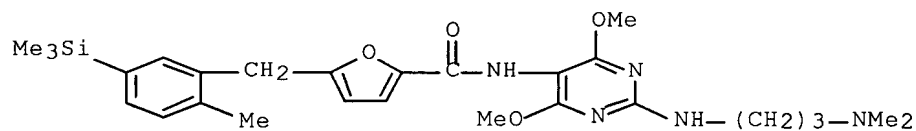
RN 825652-60-6 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]-5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



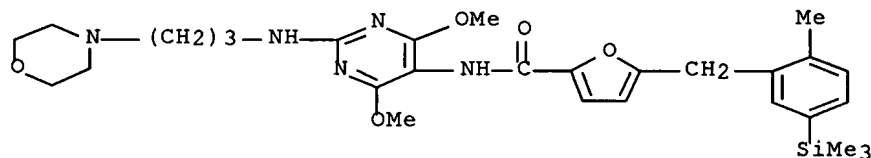
RN 825652-61-7 CAPLUS

CN 2-Furancarboxamide, N-[2-[[3-(dimethylamino)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]-5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



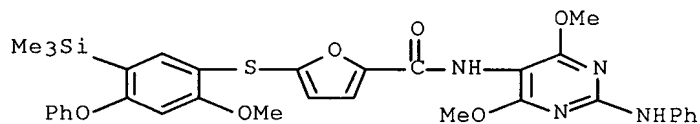
RN 825652-62-8 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-morpholinyl)propyl]amino]-5-pyrimidinyl]-5-[[2-methyl-5-(trimethylsilyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



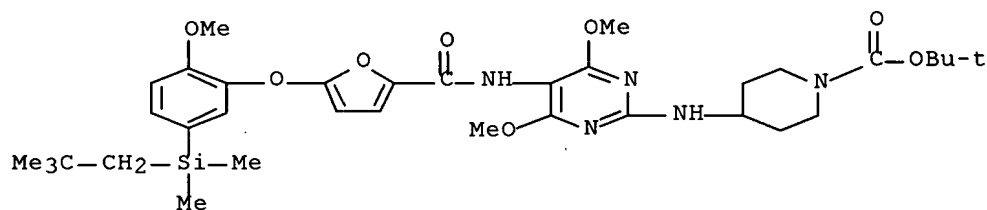
RN 825652-63-9 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-(phenylamino)-5-pyrimidinyl]-5-[[2-methoxy-4-phenoxy-5-(trimethylsilyl)phenyl]thio]- (9CI) (CA INDEX NAME)



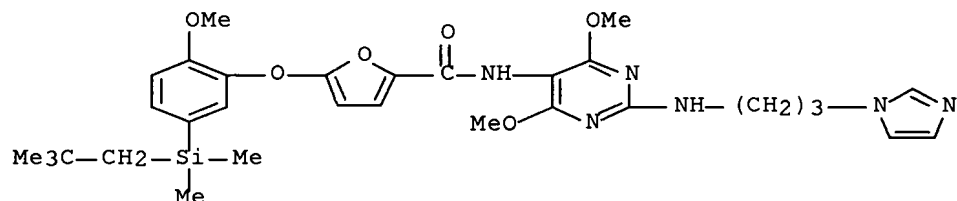
RN 825652-64-0 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[5-[[[5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methoxyphenoxy]-2-furanyl]carbonyl]amino]-4,6-dimethoxy-2-pyrimidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



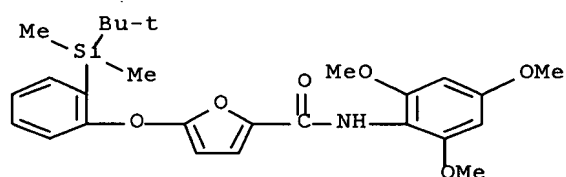
RN 825652-65-1 CAPLUS

CN 2-Furancarboxamide, 5-[5-[(2,2-dimethylpropyl)dimethylsilyl]-2-methoxyphenoxy]-N-[2-[[3-(1H-imidazol-1-yl)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



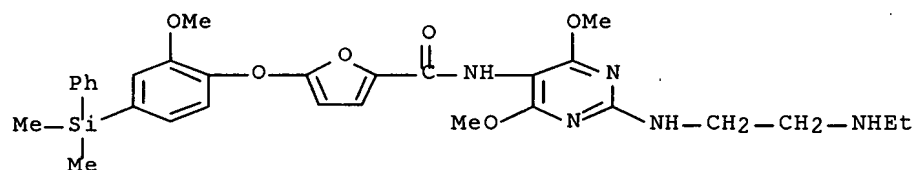
RN 825652-66-2 CAPLUS

CN 2-Furancarboxamide, 5-[2-[(1,1-dimethylethyl)dimethylsilyl]phenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



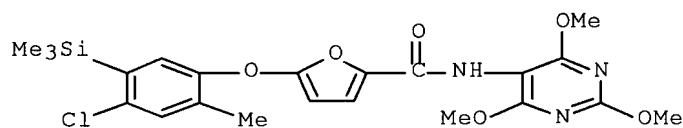
RN 825652-67-3 CAPLUS

CN 2-Furancarboxamide, 5-[4-(dimethylphenylsilyl)-2-methoxyphenoxy]-N-[2-[(2-ethylamino)ethyl]amino]-4,6-dimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



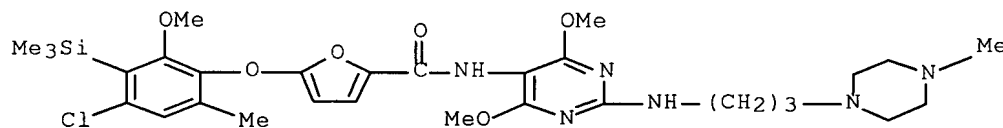
RN 825652-68-4 CAPLUS

CN 2-Furancarboxamide, 5-[4-chloro-2-methyl-5-(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



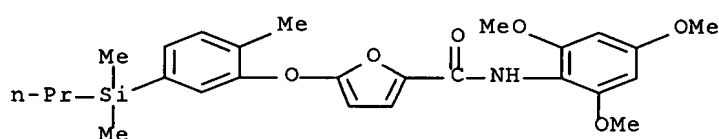
RN 825652-69-5 CAPLUS

CN 2-Furancarboxamide, 5-[4-chloro-2-methoxy-6-methyl-3-(trimethylsilyl)phenoxy]-N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



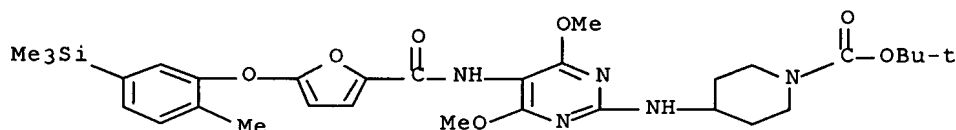
RN 825652-70-8 CAPLUS

CN 2-Furancarboxamide, 5-[5-(dimethylpropylsilyl)-2-methylphenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



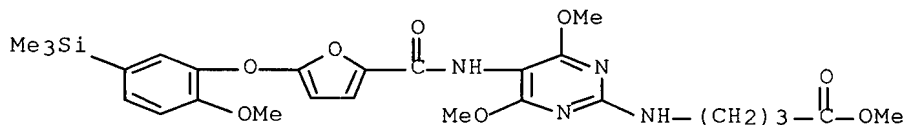
RN 825652-71-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4,6-dimethoxy-5-[[[5-[2-methyl-5-(trimethylsilyl)phenoxy]-2-furanyl]carbonyl]amino]-2-pyrimidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



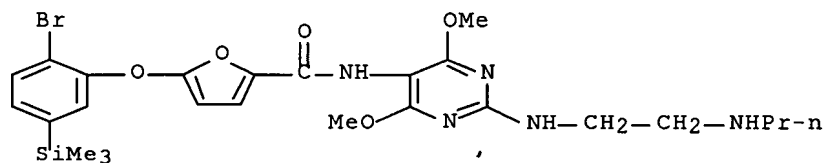
RN 825652-72-0 CAPLUS

CN Butanoic acid, 4-[[4,6-dimethoxy-5-[[[5-[2-methoxy-5-(trimethylsilyl)phenoxy]-2-furanyl]carbonyl]amino]-2-pyrimidinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



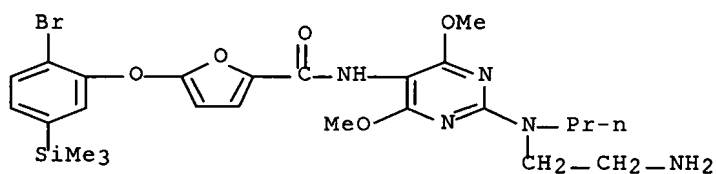
RN 825652-73-1 CAPLUS

CN 2-Furancarboxamide, 5-[2-bromo-5-(trimethylsilyl)phenoxy]-N-[4,6-dimethoxy-2-[[2-(propylamino)ethyl]amino]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



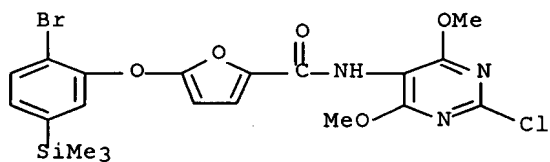
RN 825652-74-2 CAPLUS

CN 2-Furancarboxamide, N-[2-[(2-aminoethyl)propylamino]-4,6-dimethoxy-5-pyrimidinyl]-5-[2-bromo-5-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)



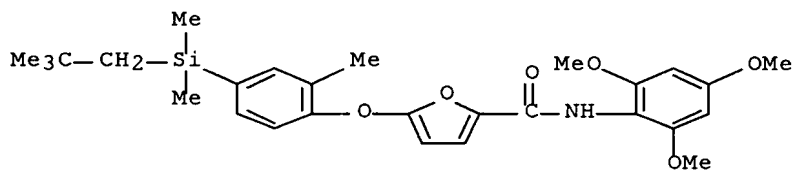
RN 825652-75-3 CAPLUS

CN 2-Furancarboxamide, 5-[2-bromo-5-(trimethylsilyl)phenoxy]-N-(2-chloro-4,6-dimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



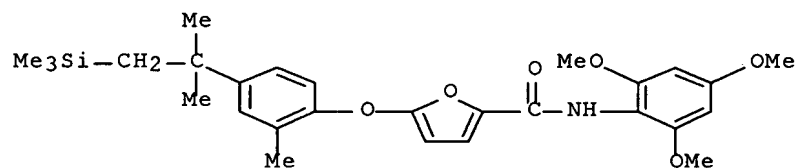
RN 825652-76-4 CAPLUS

CN 2-Furancarboxamide, 5-[4-[(2,2-dimethylpropyl)dimethylsilyl]-2-methylphenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



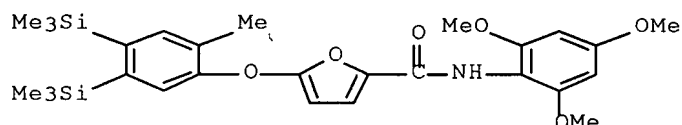
RN 825652-77-5 CAPLUS

CN 2-Furancarboxamide, 5-[4-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-2-methylphenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



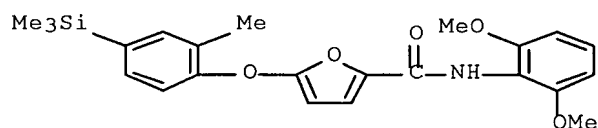
RN 825652-78-6 CAPLUS

CN 2-Furancarboxamide, 5-[2-methyl-4,5-bis(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



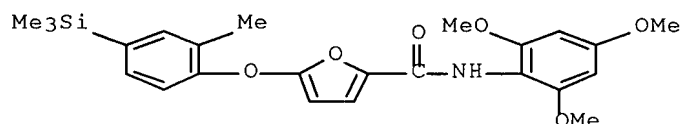
RN 825652-79-7 CAPLUS

CN 2-Furancarboxamide, N-(2,6-dimethoxyphenyl)-5-[2-methyl-4-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)



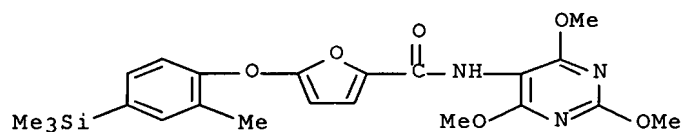
RN 825652-80-0 CAPLUS

CN 2-Furancarboxamide, 5-[2-methyl-4-(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



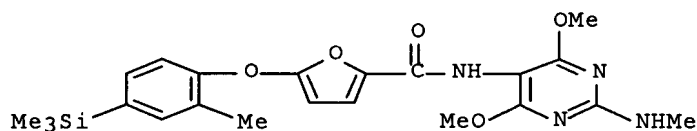
RN 825652-81-1 CAPLUS

CN 2-Furancarboxamide, 5-[2-methyl-4-(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



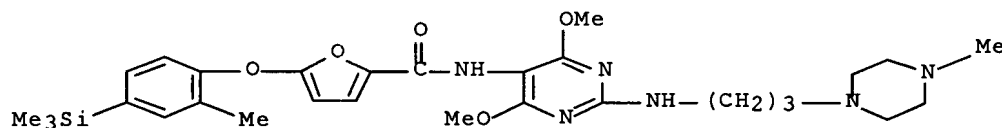
RN 825652-82-2 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-(methylamino)-5-pyrimidinyl]-5-[2-methyl-4-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)



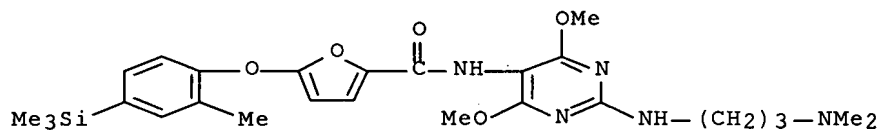
RN 825652-83-3 CAPLUS

CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]-5-[2-methyl-4-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)



RN 825652-84-4 CAPLUS

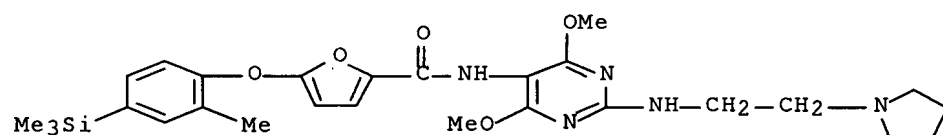
CN 2-Furancarboxamide, N-[2-[[3-(dimethylamino)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]-5-[2-methyl-4-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)



RN 825652-85-5 CAPLUS

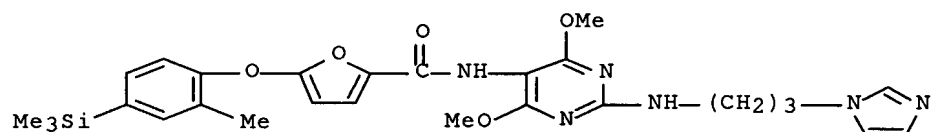
CN 2-Furancarboxamide, N-[4,6-dimethoxy-2-[[2-(1-pyrrolidinyl)ethyl]amino]-5-pyrimidinyl]-5-[2-methyl-4-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)





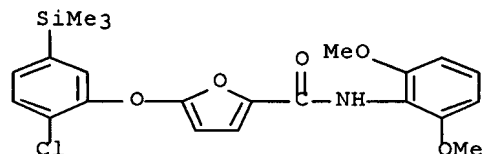
RN 825652-86-6 CAPLUS

CN 2-Furancarboxamide, N-[2-[[3-(1H-imidazol-1-yl)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]-5-[2-methyl-4-(trimethylsilyl)phenoxy]- (9CI) (CA INDEX NAME)



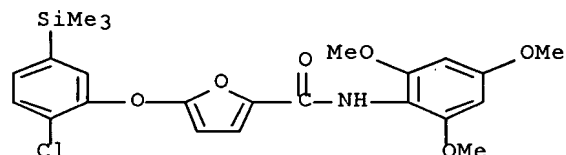
RN 825652-87-7 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-(2,6-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



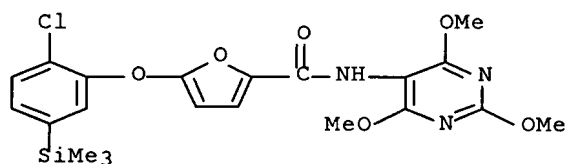
RN 825652-88-8 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



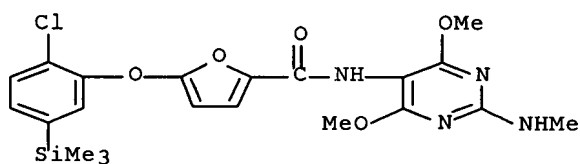
RN 825652-89-9 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-(2,4,6-trimethoxy-5-pyrimidinyl)- (9CI) (CA INDEX NAME)



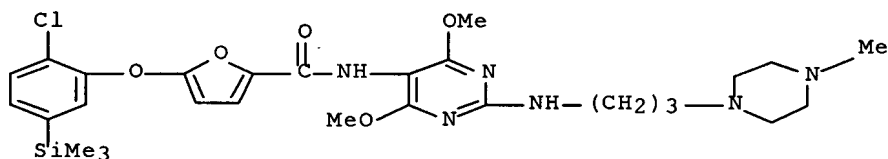
RN 825652-90-2 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-[4,6-dimethoxy-2-(methylamino)-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



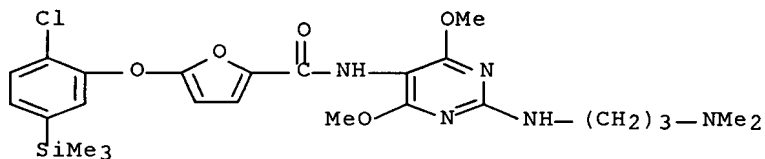
RN 825652-91-3 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-[4,6-dimethoxy-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



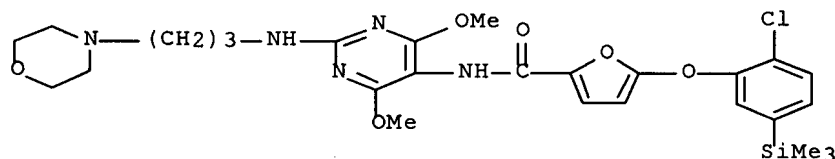
RN 825652-92-4 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-[2-[[3-(dimethylamino)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



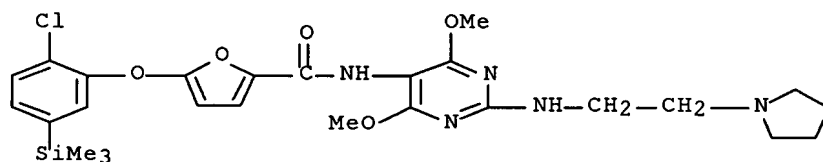
RN 825652-93-5 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-[4,6-dimethoxy-2-[[3-(4-morpholinyl)propyl]amino]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



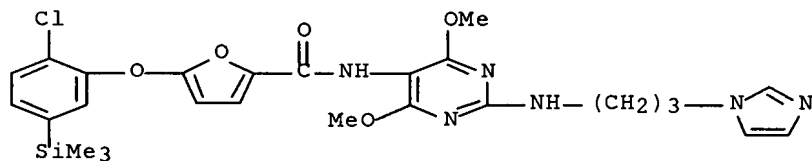
RN 825652-94-6 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-[4,6-dimethoxy-2-[[2-(1-pyrrolidinyl)ethyl]amino]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



RN 825652-95-7 CAPLUS

CN 2-Furancarboxamide, 5-[2-chloro-5-(trimethylsilyl)phenoxy]-N-[2-[[3-(1H-imidazol-1-yl)propyl]amino]-4,6-dimethoxy-5-pyrimidinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:651446 CAPLUS Full-text

DOCUMENT NUMBER: 141:158285

TITLE: Gas-permeable polyimide film and its manufacture

INVENTOR(S): Uenishi, Michiharu; Aoki, Toshiki; Kaneko, Takashi; Shimizu, Taketo; Kumata, Masayuki; Teraguchi, Masahiro

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

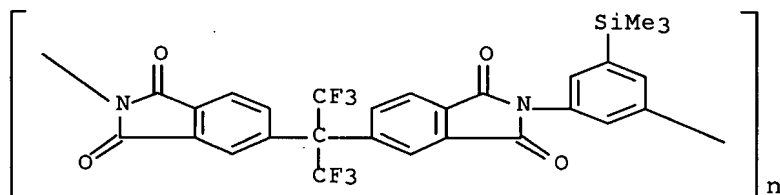
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004224889	A	20040812	JP 2003-13529	20030122 <--
PRIORITY APPLN. INFO.:			JP 2003-13529	20030122 <--

AB The polyimide film is prepared film formation and imidizing of a polyamic acid prepared by polyaddn. of  $\geq 1$  aromatic diamines bearing  $\geq 1$  SiMe<sub>3</sub> bonded to the aromatic ring and aromatic tetracarboxylic dianhydrides. Thus, polyaddn. of 5-trimethylsilyl-1,3-phenylenediamine with pyromellitic dianhydride in N,N-dimethylacetamide at .apprx.25°, followed by dissolving in THF, applying on a glass substrate to give a 120- $\mu$ m thick polyamic acid film, which was kept at 250° to give a .apprx.120- $\mu$ m thick polyimide film showing transmission rates of O<sub>2</sub> and N<sub>2</sub> 45 + 10-10 and 10 + 10-10 cm<sup>3</sup> (25°)·cm.cntdot .cm-2·cmHg-1·s-, resp.

IT 731031-24-6P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (manufacture of gas-permeable polyimide film)

RN 731031-24-6 CAPLUS

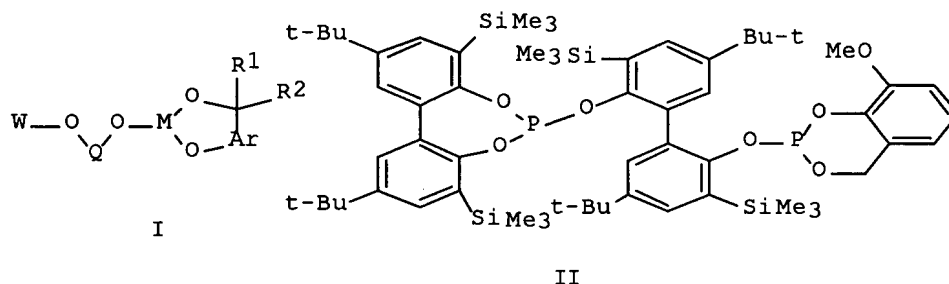
CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)[5-(trimethylsilyl)-1,3-phenylene]] (9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:354954 CAPLUS Full-text  
 DOCUMENT NUMBER: 140:357510  
 TITLE: Preparation of phosphorus containing bis-chelating ligand and use thereof in carbonylation of alkenes  
 INVENTOR(S): Peng, Wei-jun; Holladay, Jonathon E.  
 PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, USA  
 SOURCE: PCT Int. Appl., 41 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004035595	A1	20040429	WO 2003-US30380	20030926 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH,				

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH,  
 PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT,  
 TZ, UA, UG, US, UZ, VC, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2003270902 A1 20040504 AU 2003-270902 20030926 <--  
 EP 1554293 A1 20050720 EP 2003-752616 20030926 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 CN 1688593 A 20051026 CN 2003-824189 20030926 <--  
 JP 2006503086 T 20060126 JP 2004-544772 20030926 <--  
 BR 2003014566 A 20060627 BR 2003-14566 20030926 <--  
 US 2006058557 A1 20060316 US 2005-527568 20050311 <--  
 IN 2005CN00594 A 20070622 IN 2005-CN594 20050411 <--  
 IN 2006CN04692 A 20070629 IN 2006-CN4692 20061221 <--  
 PRIORITY APPLN. INFO.: US 2002-418620P P 20021015 <--  
 WO 2003-US30380 W 20030926 <--  
 IN 2005-CN594 A3 20050411  
 OTHER SOURCE(S): CASREACT 140:357510; MARPAT 140:357510  
 GI



AB A preparation of novel bis-chelating compds. I (M = Group VB element; R1, R2 = independently selected from H, and monovalent hydrocarbyl radicals; or R1R2 are bonded together to form a diradical; or one of R1 or R2 is H, or a monovalent hydrocarbyl radical, while the other of R1 or R2 is a hydrocarbyl radical bonded to an atom in Ar; Ar = 1,2-arylenes; Q = 1,2-arylenes, 2,2'-bisarylenes, alkyl diradicals; W = O containing straight chain or cyclic radicals), useful as cocatalysts, is described. I finds utility as a ligand in catalysts for carbonylation processes. Thus, preparation of aryl phosphite II is described in several steps starting from 3,3'-bis(trimethylsilyl)-5,5'-di-tert-butyl-2,2'-biphenol. Use of II in [Rh(CO)<sub>2</sub>(acac)] catalyzed hydroformylation of 1-octene is also described.

IT 682332-54-3P 682332-55-4P 682332-57-6P  
 682332-58-7P 682332-59-8P

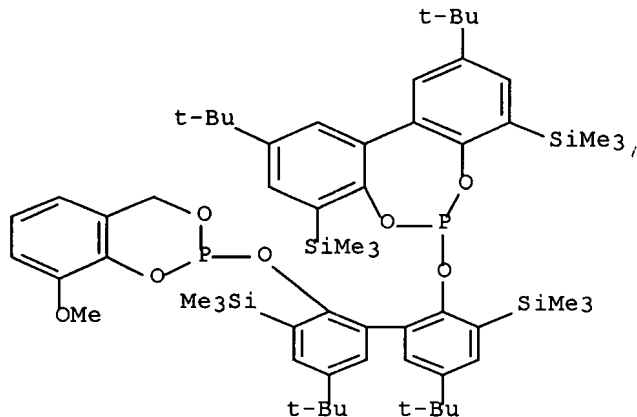
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);  
 USES (Uses)

(preparation of aryl phosphites bis-chelating ligands and use thereof in carbonylation of alkenes)

RN 682332-54-3 CAPLUS

CN Dibenzo[d,f][1,3,2]dioxaphosphepin, 6-[[5,5'-bis(1,1-dimethylethyl)-2'-[(8-methoxy-4H-1,3,2-benzodioxaphosphorin-2-yl)oxy]-3,3'-

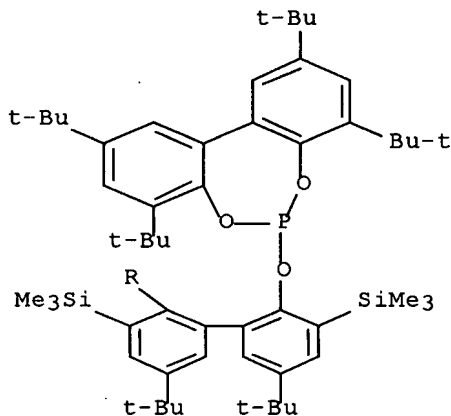
bis(trimethylsilyl)[1,1'-biphenyl]-2-yl]oxy]-2,10-bis(1,1-dimethylethyl)-  
4,8-bis(trimethylsilyl)- (9CI) (CA INDEX NAME)



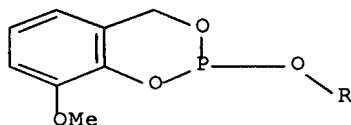
RN 682332-55-4 CAPLUS

CN Dibenzo[d,f][1,3,2]dioxaphosphhepin, 6-[[5,5'-bis(1,1-dimethylethyl)-2'-[(8-methoxy-4H-1,3,2-benzodioxaphosphorin-2-yl)oxy]-3,3'-bis(trimethylsilyl)[1,1'-biphenyl]-2-yl]oxy]-2,4,8,10-tetrakis(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

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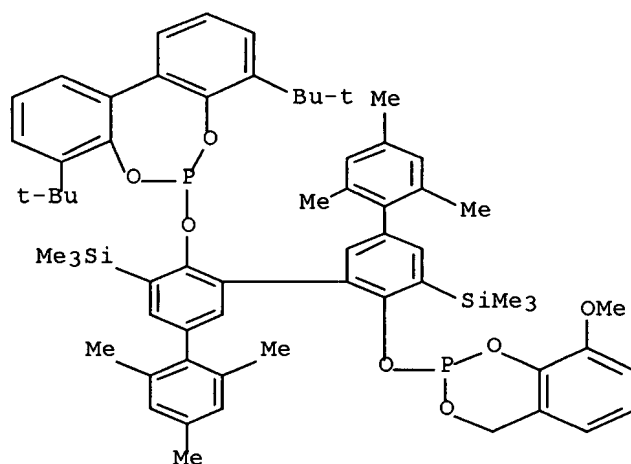


PAGE 2-A



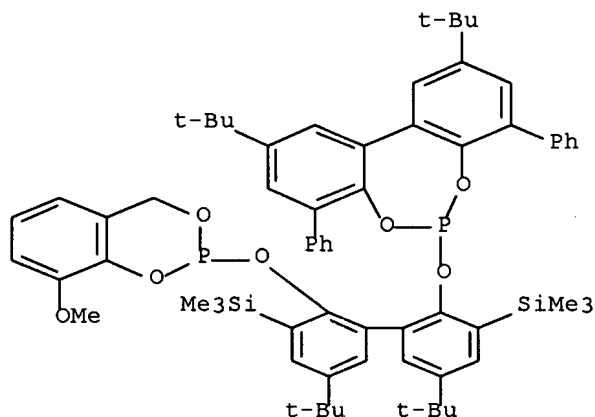
RN 682332-57-6 CAPLUS

CN Dibenzo[d,f][1,3,2]dioxaphosphhepin, 4,8-bis(1,1-dimethylethyl)-6-[[6'-[(8-methoxy-4H-1,3,2-benzodioxaphosphorin-2-yl)oxy]-2,2''',4,4''',6,6'''-hexamethyl-5',5''-bis(trimethylsilyl)[1,1':3',1'':3'',1'''-quaterphenyl]-4'-yl]oxy]- (9CI) (CA INDEX NAME)



RN 682332-58-7 CAPLUS

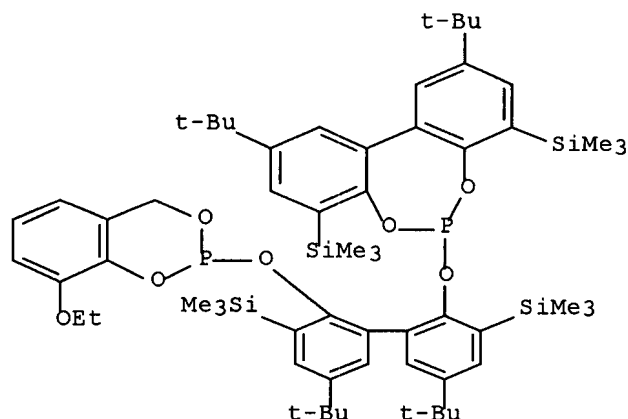
CN Dibenzo[d,f][1,3,2]dioxaphosphhepin, 6-[[5,5'-bis(1,1-dimethylethyl)-2'-[(8-methoxy-4H-1,3,2-benzodioxaphosphorin-2-yl)oxy]-3,3'-bis(trimethylsilyl)[1,1'-biphenyl]-2-yl]oxy]-2,10-bis(1,1-dimethylethyl)-4,8-diphenyl- (9CI) (CA INDEX NAME)



RN 682332-59-8 CAPLUS

CN Dibenzo[d,f][1,3,2]dioxaphosphhepin, 6-[[5,5'-bis(1,1-dimethylethyl)-2'-[(8-ethoxy-4H-1,3,2-benzodioxaphosphorin-2-yl)oxy]-3,3'-bis(trimethylsilyl)[1,1'-biphenyl]-2-yl]oxy]-2,10-bis(1,1-dimethylethyl)-

4,8-bis(trimethylsilyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:80676 CAPLUS Full-text  
 DOCUMENT NUMBER: 140:146019  
 TITLE: Preparation of pentacyclic oxepines as estrogen receptor ligands  
 INVENTOR(S): Hinklin, Ronald Jay; Wallace, Owen Brendan  
 PATENT ASSIGNEE(S): Eli Lilly and Company, USA  
 SOURCE: PCT Int. Appl., 81 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004009578	A2	20040129	WO 2003-US19561	20030718 <--
WO 2004009578	A3	20040311		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003247589	A1	20040209	AU 2003-247589	20030718 <--
EP 1551822	A2	20050713	EP 2003-765456	20030718 <--
EP 1551822	B1	20061220		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005538092	T	20051215	JP 2004-523013	20030718 <--
AT 348824	T	20070115	AT 2003-765456	20030718 <--



ES 2277118	T3	20070701	ES 2003-3765456	20030718 <--
US 2005261277	A1	20051124	US 2005-521998	20050118 <--
PRIORITY APPLN. INFO.:			US 2002-398537P	P 20020724 <--
			WO 2003-US19561	W 20030718 <--

OTHER SOURCE(S):            MARPAT 140:146019  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [R1 = H, OH, alkoxy, acyloxy, etc.; R0, R2-3 = H, OH, alkoxy, etc.; R4 = piperidinyl, pyrrolidinyl, etc.; n = 2-3; X = S, HC.tplbond.CH; G = O, SO0-2, amino, etc.] are prepared For instance, 2-(1,3-dioxolan-2-yl)phenylmagnesium bromide is added to (2-dimethylamino-6-methoxybenzo[b]thiophen-3-yl)[4-(2-(piperidin-1-yl)ethoxy)phenyl]methanone (THF) and the resulting acetal deprotected (THF/H2O, HCl, reflux, 30 min) and reduced/cyclized (THF, LAH) to give II. Tested I bound to ER $\alpha$  receptors with Ki = 0.7-300 nM. I, optionally in combination with estrogen or progestin, are useful for inhibiting a disease associated with estrogen deprivation and for inhibiting a disease associated with an aberrant physiol. response to endogenous estrogen.

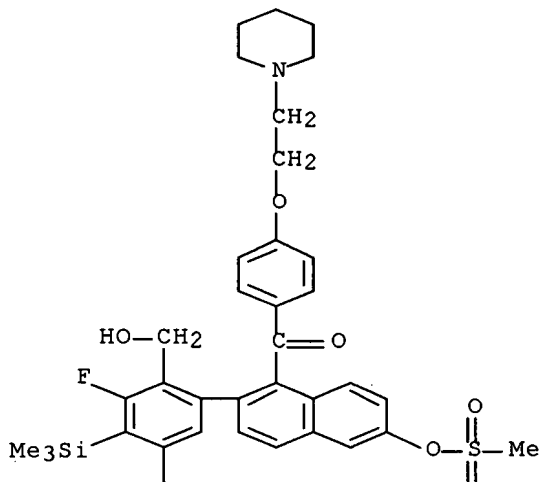
IT 651326-81-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of pentacyclic oxepines)

RN 651326-81-7 CAPLUS

CN Methanone, [2-[3,5-difluoro-2-(hydroxymethyl)-4-(trimethylsilyl)phenyl]-6-[(methylsulfonyl)oxy]-1-naphthalenyl][4-[2-(1-piperidinyl)ethoxy]phenyl]-(9CI) (CA INDEX NAME)

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L14 ANSWER 5 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:757718 CAPLUS Full-text  
 DOCUMENT NUMBER: 139:277002  
 TITLE: Preparation of novel phosoxophite ligands and use thereof in carbonylation processes  
 INVENTOR(S): Peng, Wei-Jun; Bryant, David Robert  
 PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, USA  
 SOURCE: PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003078444	A2	20030925	WO 2003-US6456	20030304 <--
WO 2003078444	A3	20031218		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003230587	A1	20030929	AU 2003-230587	20030304 <--
EP 1485392	A2	20041215	EP 2003-723671	20030304 <--
EP 1485392	B1	20060315		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005519968	T	20050707	JP 2003-576449	20030304 <--
CN 1639177	A	20050713	CN 2003-805425	20030304 <--
AT 320438	T	20060415	AT 2003-723671	20030304 <--
US 2006100453	A1	20060511	US 2004-504247	20040810 <--
US 7196230	B2	20070327		
PRIORITY APPLN. INFO.:			US 2002-363725P	P 20020311 <--
			WO 2003-US6456	W 20030304 <--
OTHER SOURCE(S):		CASREACT 139:277002; MARPAT 139:277002		
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB A novel organophosphorus composition I and II (A, Z = H, halo, monovalent hydrocarbyl radicals, tri(hydrocarbyl)silyl radicals, etc.; B, Y = aryl, tertiary alkyl, tri(hydrocarbyl)silyl radicals, etc.; R1 = H, monovalent

alkyl, aryl radicals; n = 0-2; X = (un)substituted alkyl and aryl diradicals) and synthesis thereof, the composition being characterized by one phosphite moiety, one phosoxophite moiety, and a plurality of sterically bulky substituents. The novel composition finds utility as a ligand in Group VIII transition metal phosoxophite complex catalysts and complex catalyst precursors that are used in carbonylation processes, preferably, hydroformylation processes. Addnl., there is disclosed a novel method of preparing a phosphoromonochloridite composition that finds utility as a precursor to the novel phosoxophite composition. Thus, reaction of 3,3'-di-tert-butyl-5,5'-di-tert-pivaloyloxy-2,2'-biphenol with PCl<sub>3</sub> in Et<sub>2</sub>O/THF in the presence of N,N-dimethylaniline followed by sequential treatment with 3,3'-bis(trimethylsilyl)-5,5'-di-tert-butyl-2,2'-biphenol/Et<sub>3</sub>N/THF and 3,5-dibromosalicylic acid/Et<sub>3</sub>N/THF gave title phosoxophite which was used as ligand in Rh(CO)<sub>2</sub>(acac) catalyzed hydroformylation of 2-pentenol.

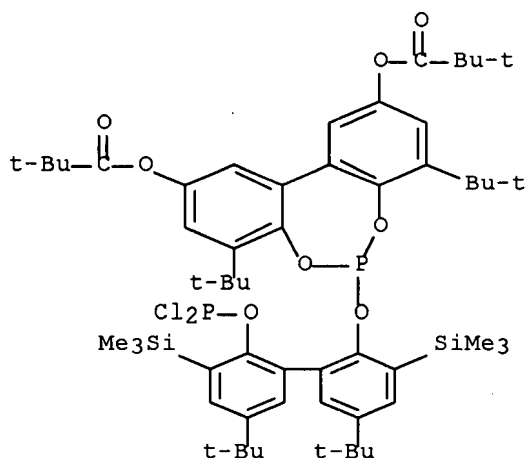
IT 604799-10-2P 604799-12-4P 604799-13-5P  
604799-16-8P 604799-17-9P 604799-18-0P  
604799-20-4P 604799-21-5P 604799-22-6P  
604799-24-8P 604799-25-9P 604799-29-3P  
604799-31-7P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);  
USES (Uses)

(preparation of novel phosoxophite ligands and use thereof in transition metal mediated catalytic processes)

RN 604799-10-2 CAPLUS

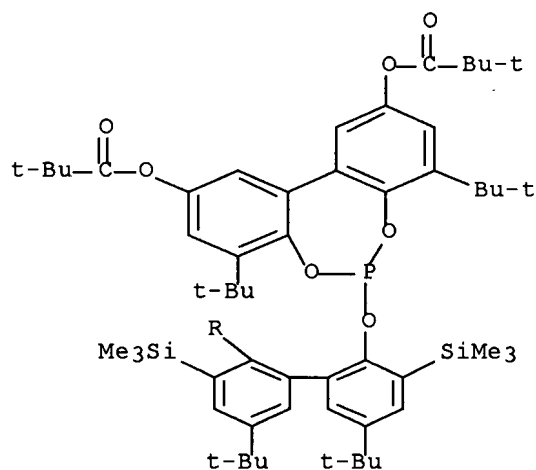
CN Propanoic acid, 2,2-dimethyl-, 6-[[2'-[(dichlorophosphino)oxy]-5,5'-bis(1,1-dimethylethyl)-3,3'-bis(trimethylsilyl)[1,1'-biphenyl]-2-yl]oxy]-4,8-bis(1,1-dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphopin-2,10-diyl ester (9CI) (CA INDEX NAME)



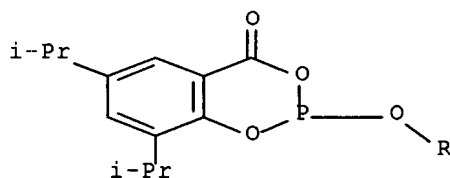
RN 604799-12-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6-[[2'-[[6,8-bis(1-methylethyl)-4-oxo-4H-1,3,2-benzodioxaphosphorin-2-yl]oxy]-5,5'-bis(1,1-dimethylethyl)-3,3'-bis(trimethylsilyl)[1,1'-biphenyl]-2-yl]oxy]-4,8-bis(1,1-dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphopin-2,10-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

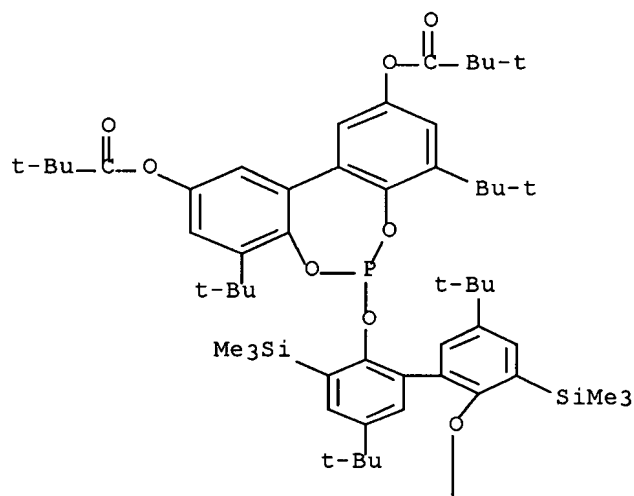


PAGE 2-A

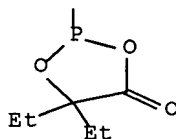


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 (CA INDEX NAME)

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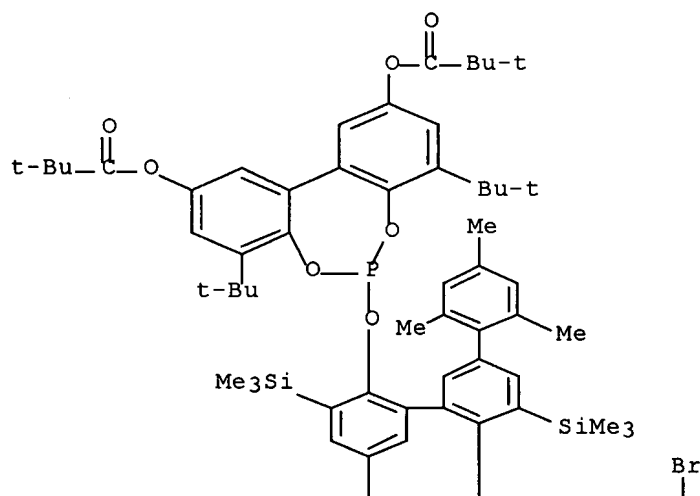
PAGE 2-A



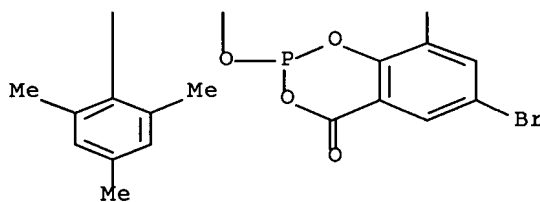
RN 604799-16-8 CAPLUS

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PAGE 1-A

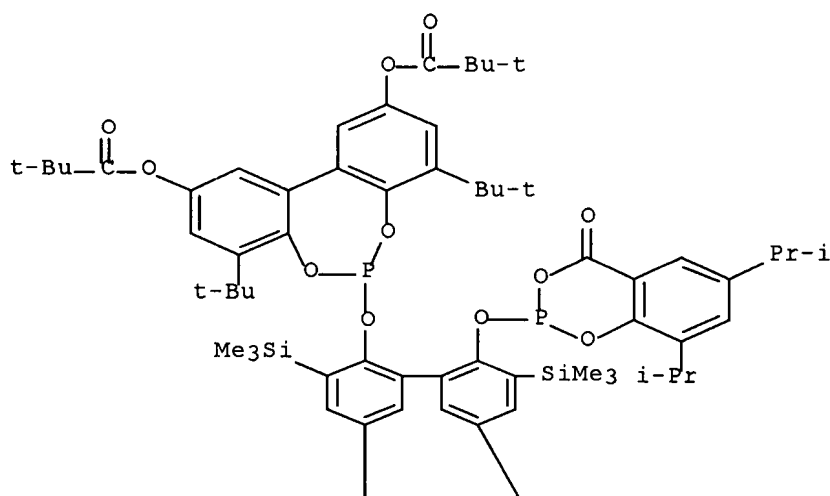


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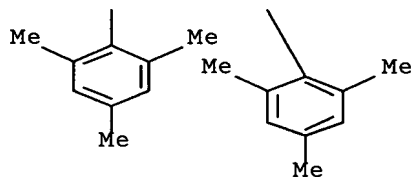


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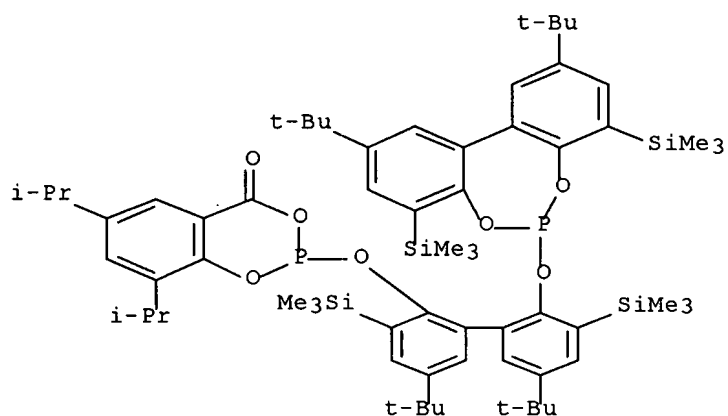
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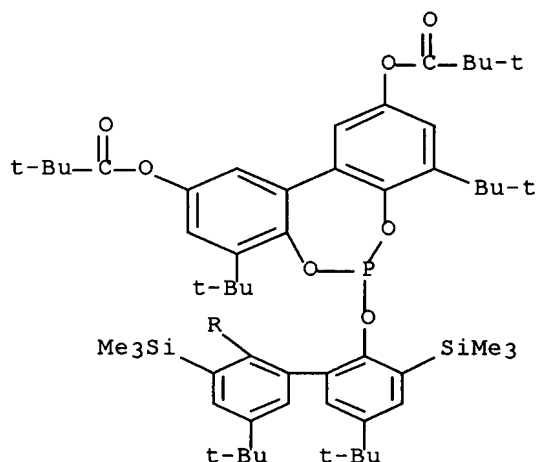


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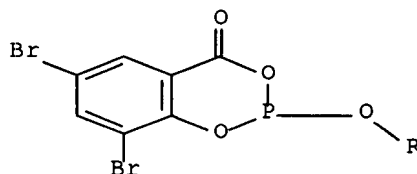


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 (CA INDEX NAME)

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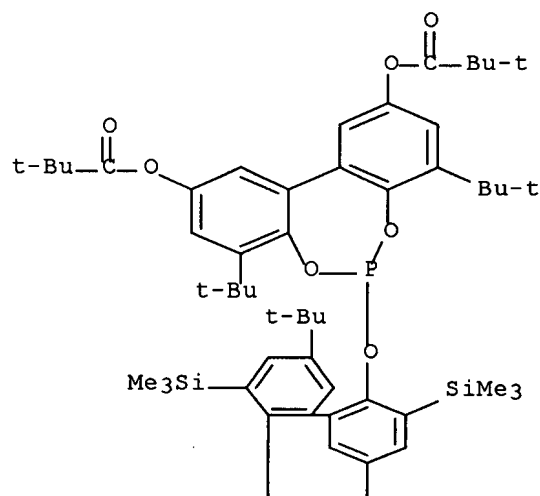
PAGE 2-A



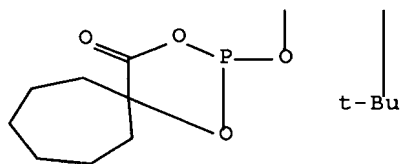
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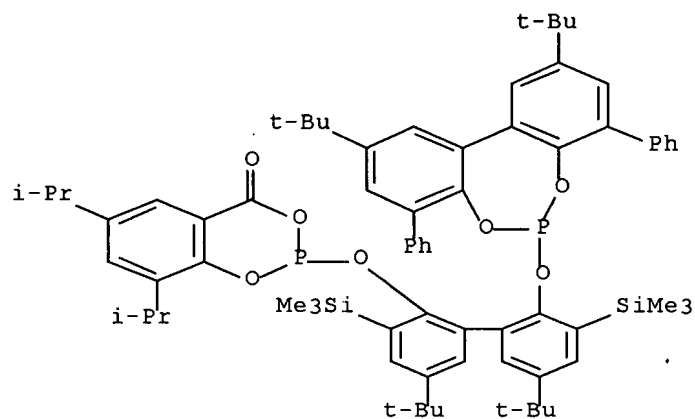


PAGE 2-A



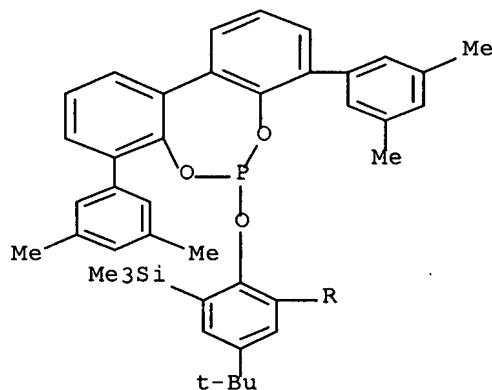
RN 604799-22-6 CAPLUS

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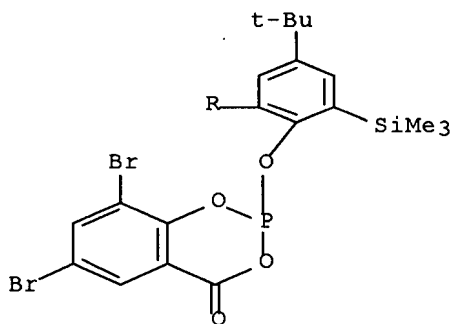


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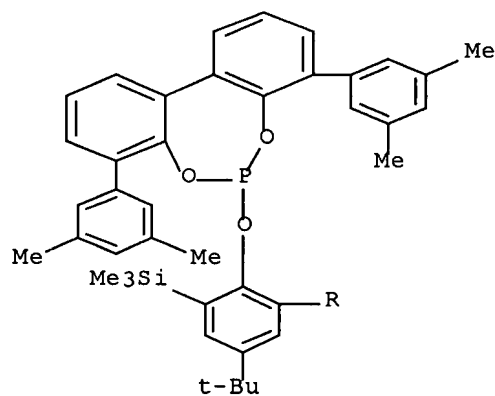


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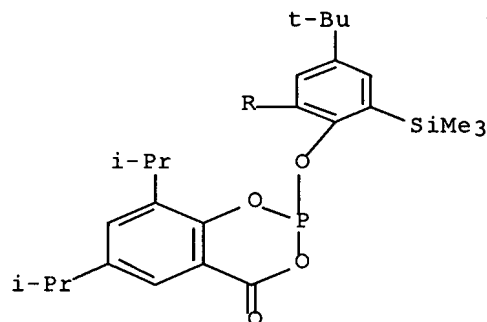


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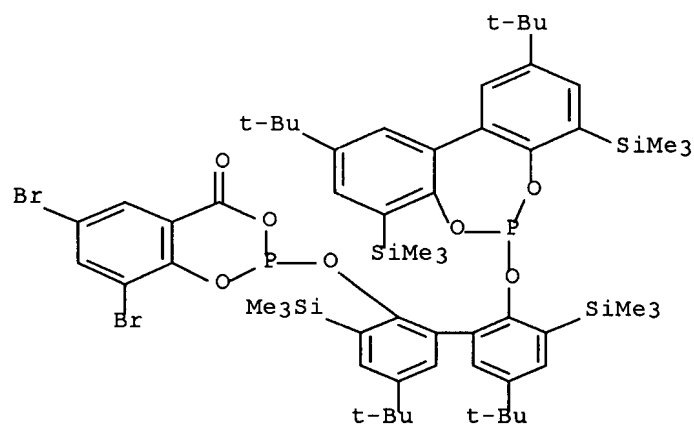
PAGE 1-A



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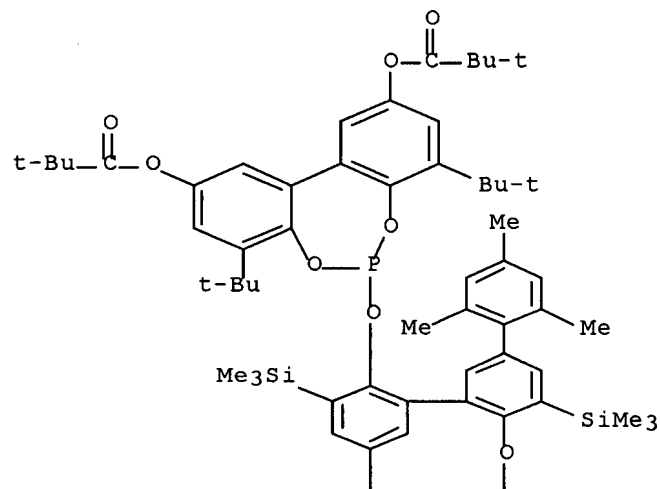
RN 604799-29-3 CAPLUS  
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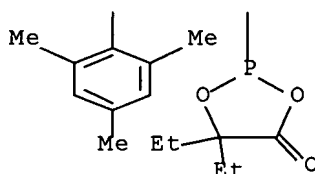
RN 604799-31-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6-[[6'-[(4,4-diethyl-5-oxo-1,3,2-dioxaphospholan-2-yl)oxy]-2,2'',4,4'',6,6''-hexamethyl-5',5''-bis(trimethylsilyl)[1,1':3',1''-terphenyl]-4'-yl]oxy]-4,8-bis(1,1-dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphepin-2,10-diyl ester (9CI)  
(CA INDEX NAME)

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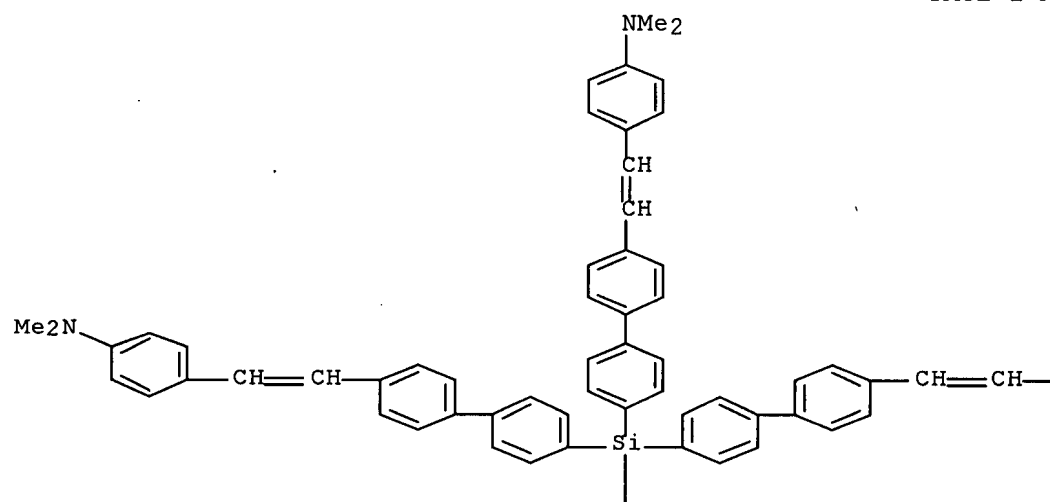
PAGE 2-A



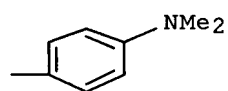
L14 ANSWER 6 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:369071 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:376130  
 TITLE: Organic electroluminescent device with tetraaryl  
 methane or tetraaryl silane  
 INVENTOR(S): Suzuki, Koichi; Ueno, Kazunori; Saito, Akito  
 PATENT ASSIGNEE(S): Canon Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003138251	A	20030514	JP 2001-332855	20011030 <--
PRIORITY APPLN. INFO.:			JP 2001-332855	20011030 <--
AB	The invention refers to an organic electroluminescent device comprising a tetraaryl methane or tetraaryl silane.			
IT	522666-08-6			
	RL: DEV (Device component use); USES (Uses) (organic electroluminescent device with tetraaryl methane or tetraaryl silane)			
RN	522666-08-6 CAPLUS			
CN	Benzenamine, 4,4',4'',4'''-[silanetetrayltetrakis([1,1'-biphenyl]-4',4-diyl-2,1-ethenediyl)]tetrakis[N,N-dimethyl- (9CI) (CA INDEX NAME)			

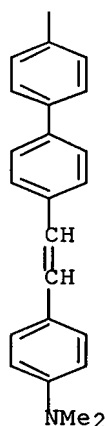
PAGE 1-A



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PAGE 2-A



L14 ANSWER 7 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:208421 CAPLUS Full-text

DOCUMENT NUMBER: 139:37263

TITLE: Studies on the curing kinetics of epoxy resins using silicon containing amide-amines

AUTHOR(S): Khurana, P.; Aggarwal, S.; Narula, A. K.; Choudhary, V.

CORPORATE SOURCE: School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, Delhi, 110006, India

SOURCE: Journal of Thermal Analysis and Calorimetry (2003), 71(2), 613-622

CODEN: JTACF7; ISSN: 1388-6150

PUBLISHER: Kluwer Academic Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The curing kinetics of diglycidyl ether of bisphenol-A (DGEBA) in the presence of novel silicon containing amide-amines was investigated using dynamic differential scanning calorimetry. Silicon-containing amide-amines were prepared by reacting 2.5 mol of 4,4'-diaminodiphenyl ether (E)/4,4'-diaminodiphenylmethane (M)/3,3'-diaminodiphenyl sulfone (mS)/bis(m-aminophenyl) Me phosphine oxide (B) with one mole of bis(4-chlorobenzoyl)dimethylsilane. The multiple heating rate method (5°, 10°, 15° and 20° min<sup>-1</sup>) was used to study the curing kinetics of epoxy resins in the presence of stoichiometric amts. of amide-amines having mol. masses in the range of 660 to 760 g mol<sup>-1</sup>. The peak exotherm temperature depends on the heating rate as well as on the structure of amide-amines. activation energy of curing reaction as determined in accordance to the Ozawa's method was found to be dependent on the structure of amine. The thermal stability of the isothermally cured resins was also evaluated using dynamic thermogravimetry in a nitrogen atmospheric. The char yield was the highest in case of resins cured with amide-amines having both phosphorus and silicon atoms.

IT 500913-04-2 500913-05-3 500913-06-4  
500913-07-5

RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

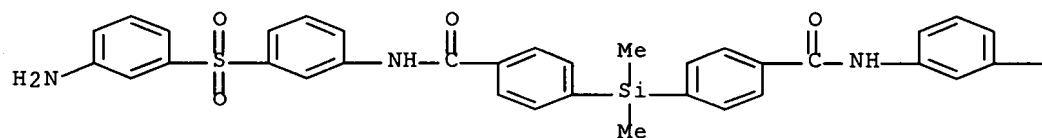
(kinetics of curing of epoxy resins with silicon-containing amide-amine crosslinking agents)

RN 500913-04-2 CAPLUS

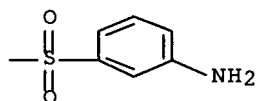
CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[(3-

aminophenyl)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

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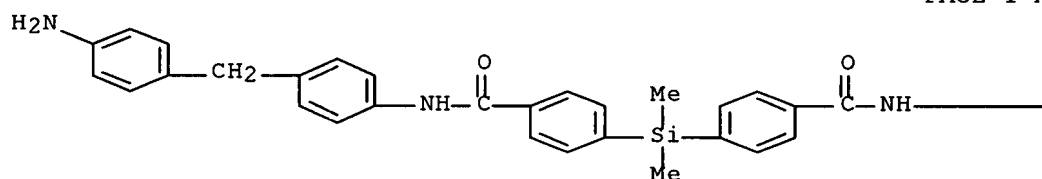
PAGE 1-B



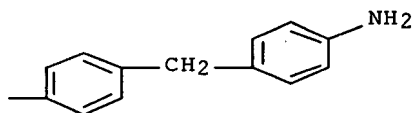
RN 500913-05-3 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-4-[(4-aminophenyl)methyl]phenyl]- (9CI) (CA INDEX NAME)

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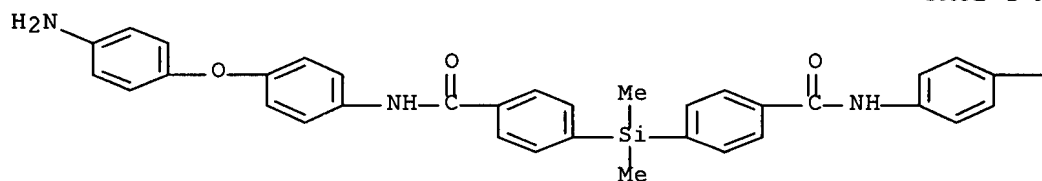


RN 500913-06-4 CAPLUS

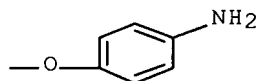
CN Benzamide, 4,4'-(dimethylsilylene)bis[N-4-(4-aminophenoxy)phenyl]- (9CI) (CA INDEX NAME)



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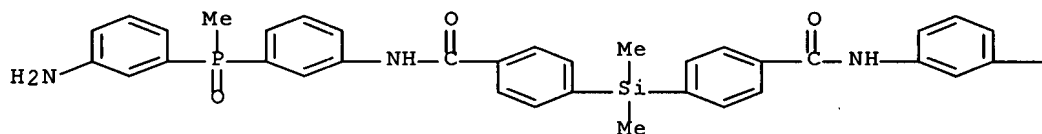
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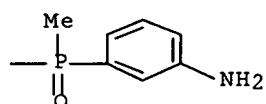
RN 500913-07-5 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-(3-aminophenyl)methylphosphinyl]phenyl- (9CI) (CA INDEX NAME)

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IT 500913-10-0P 500913-11-1P 500913-12-2P  
500913-13-3PRL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(kinetics of curing of epoxy resins with silicon-containing amide-amine  
crosslinking agents)

RN 500913-10-0 CAPLUS

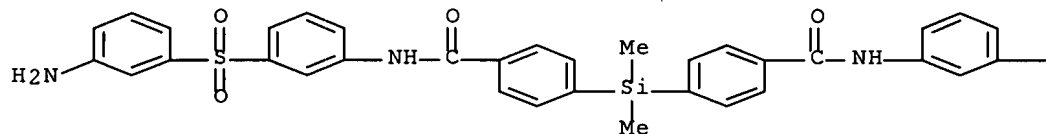
CN Benzamide, 4,4'-(dimethylsilylene)bis[N-(3-aminophenyl)sulfonyl]phenyl-, polymer with (chloromethyl)oxirane and  
4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

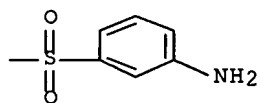
CRN 500913-04-2

CMF C40 H36 N4 O6 S2 Si

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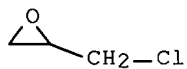
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CM 2

CRN 106-89-8

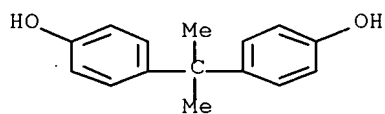
CMF C3 H5 Cl O



CM 3

CRN 80-05-7

CMF C15 H16 O2



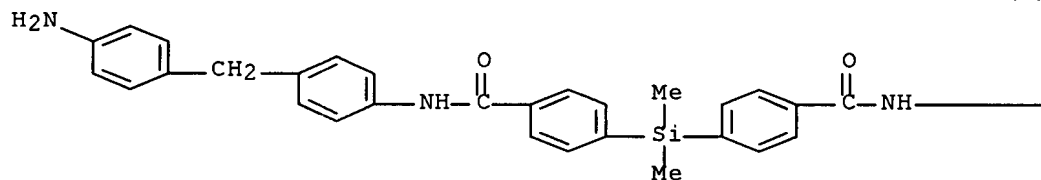
RN 500913-11-1 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[4-[(4-aminophenyl)methyl]phenyl]-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

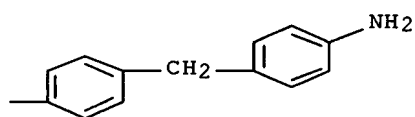
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CRN 500913-05-3  
CMF C42 H40 N4 O2 Si

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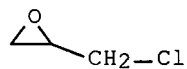


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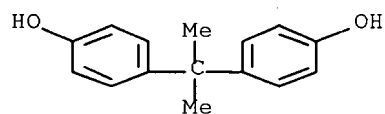
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CRN 106-89-8  
CMF C3 H5 Cl O



CM 3

CRN 80-05-7  
CMF C15 H16 O2



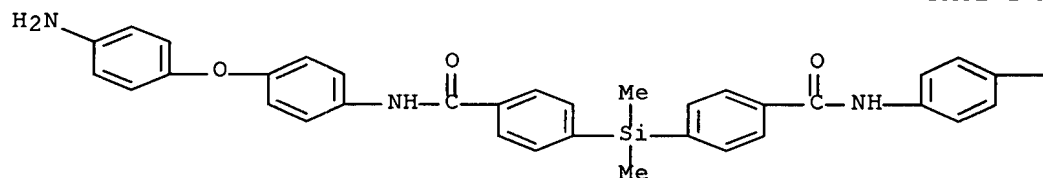
RN 500913-12-2 CAPLUS  
CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[4-(4-aminophenoxy)phenyl]-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

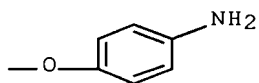
CRN 500913-06-4

CMF C40 H36 N4 O4 Si

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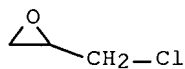
PAGE 1-B



CM 2

CRN 106-89-8

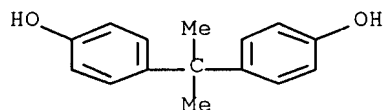
CMF C3 H5 Cl O



CM 3

CRN 80-05-7

CMF C15 H16 O2



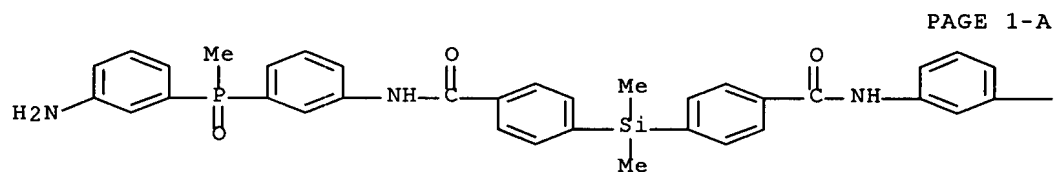
RN 500913-13-3 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[(3-aminophenyl)methylphosphinyl]phenyl]-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

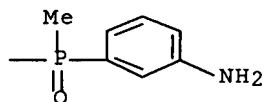
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CMF C42 H42 N4 O4 P2 Si



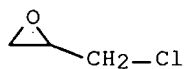
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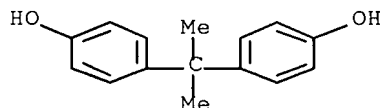
CMF C3 H5 Cl O



CM 3

CRN 80-05-7

CMF C15 H16 O2



REFERENCE COUNT:

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THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:3633 CAPLUS Full-text

DOCUMENT NUMBER: 138:222277

TITLE: Curing and thermal behavior of epoxy resin in the presence of silicon-containing amide amines

AUTHOR(S): Khurana, Parveen; Aggarwal, S.; Narula, A. K.; Choudhary, Veena

CORPORATE SOURCE: GGS, Indraprastha University, Delhi, 110 006, India

SOURCE: Journal of Applied Polymer Science (2003), 87(8), 1345-1353

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER: John Wiley &amp; Sons, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The article describes the synthesis and characterization of silicon-containing amide amines obtained by the reaction of bis(4-chloro- benzoyl)dimethylsilane with 4,4'-diaminodiphenyl ether, 4,4'-diaminodiphenyl methane, 4,4'-diaminodiphenyl sulfone/3,3'- diaminodiphenyl sulfone, bis(3-aminophenyl)methyl phosphine oxide, and tri(3-aminophenyl)phosphine oxide with di-Me acetamide as a solvent. Structural characterization of amide amines was done with Fourier transform IR and <sup>1</sup>H-NMR spectroscopy. We used these aromatic amide amines as curing agents to investigate the effect of structure and mol. size on the curing and thermal behavior of diglycidyl ether of bisphenol A (DGEBA). The curing behavior of DGEBA in the presence of stoichiometric amts. of silicon-containing aromatic amide amines was investigated by differential scanning calorimetry. A broad exothermic transition in the temperature range of 200-300°C was observed in all the samples. The peak exotherm temperature was lowest in the case of phosphorus-containing amides and was highest in the case of ether-containing amides. Thermal stability of the isothermally cured resins was evaluated with dynamic thermogravimetry in a nitrogen atmosphere. A significant improvement in the char yield was observed with silicon-containing amines, and it was highest in case of samples with both silicon and phosphorus as flame-retarding elements.

IT 500913-09-7P 500913-10-0P 500913-11-1P

500913-12-2P 500913-13-3P 500913-14-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(curing of epoxy resin in presence of silicon-containing amide amines)

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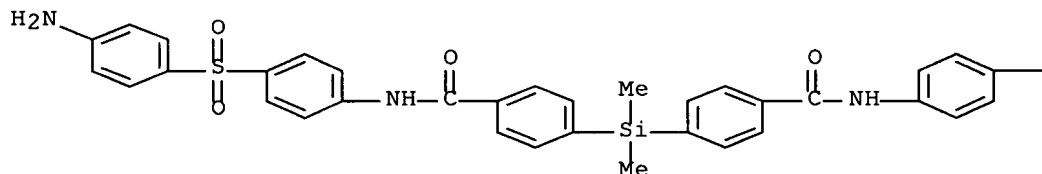
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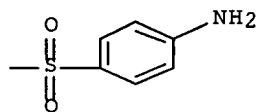
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PAGE 1-A



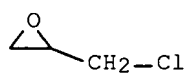
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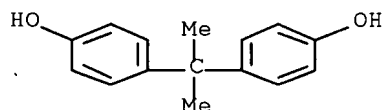
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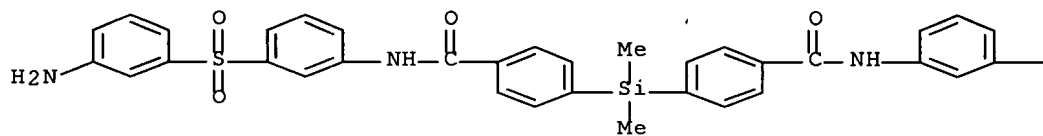
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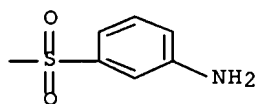
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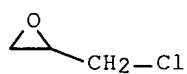
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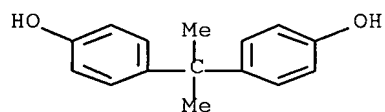
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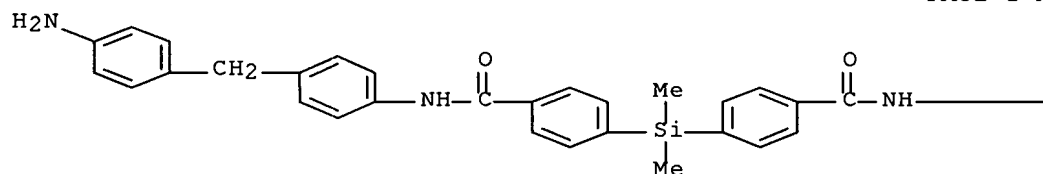
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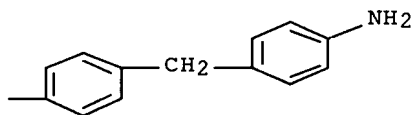
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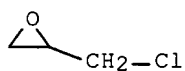
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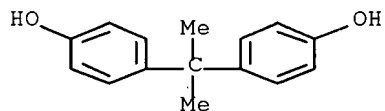
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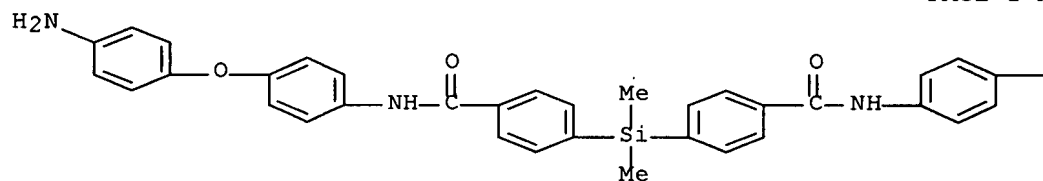
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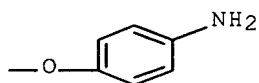
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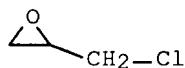
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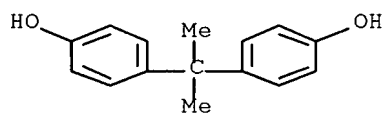
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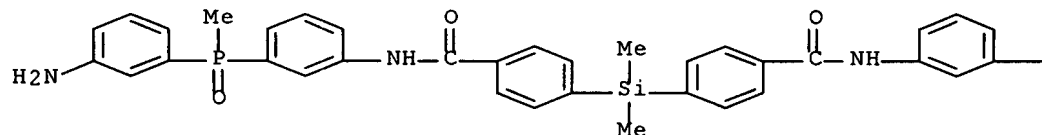
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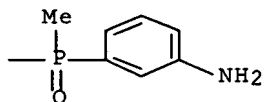
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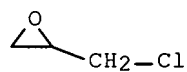
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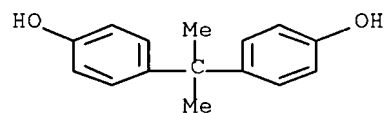
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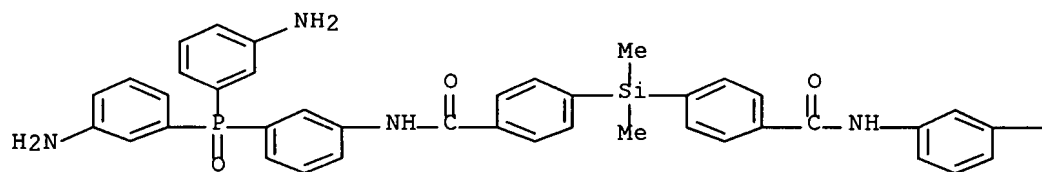
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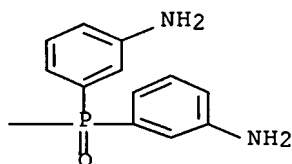
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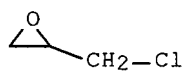
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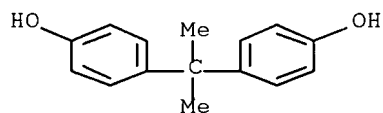
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CM 3

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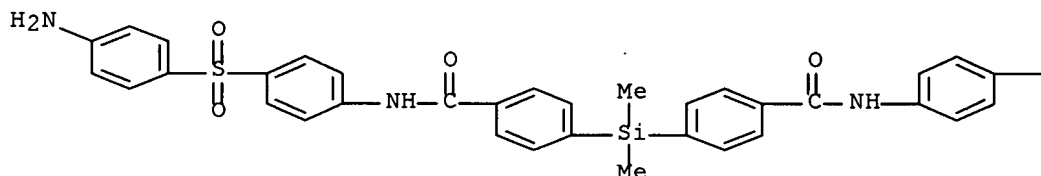
(silicon-containing amide-amine; curing of epoxy resin in presence of

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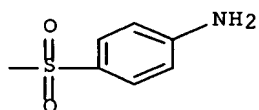
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CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[4-[(4-aminophenyl)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

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IT 500913-04-2P 500913-05-3P 500913-06-4P

500913-07-5P 500913-08-6P

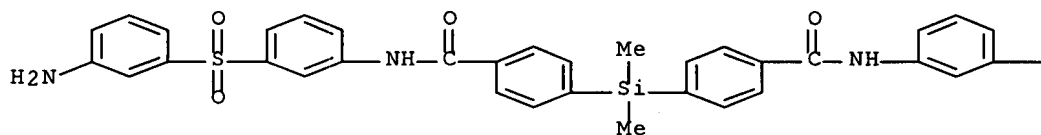
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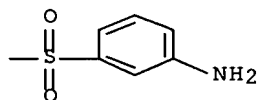
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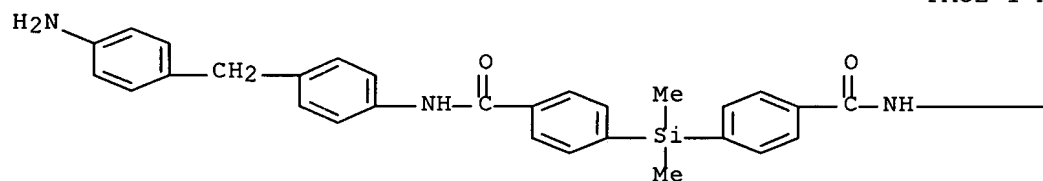
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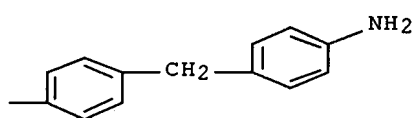
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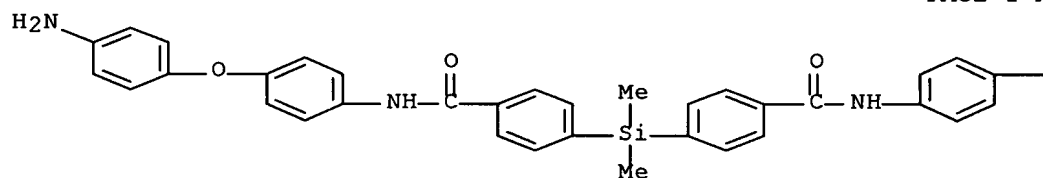
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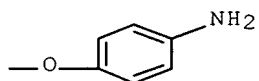
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(CA INDEX NAME)

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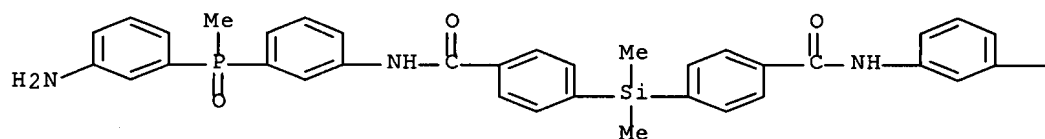
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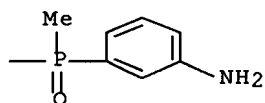
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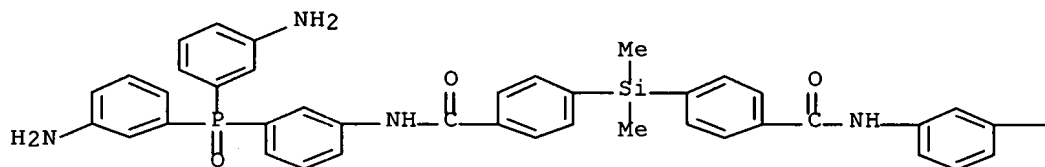
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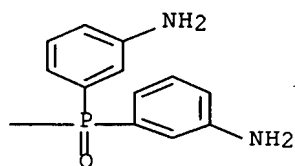
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CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[bis(3-aminophenyl)phosphinyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 9 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:948584 CAPLUS Full-text

DOCUMENT NUMBER: 138:369537

TITLE: Effect of structure on the mechanical and thermal properties of glass fabric reinforced silicon containing epoxy resins

AUTHOR(S): Khurana, Parveen; Aggarwal, S.; Narula, A. K.;

Choudhary, Veena  
 CORPORATE SOURCE: School of Basic and Applied Sciences, GGS Indraprastha University, Delhi, 110 006, India  
 SOURCE: Indian Journal of Engineering & Materials Sciences (2002), 9(5), 369-374  
 CODEN: IEMSEW; ISSN: 0971-4588  
 PUBLISHER: National Institute of Science Communication  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB The effect of the structure of an epoxy resin prepared by curing bisphenol A diglycidyl ether (DGEBA) with structurally different aromatic amide-amines containing a silicon group in the backbone on the properties of glass fabric-reinforced laminates was studied. The laminates were fabricated by coating epoxy compatible woven glass fabric with DGEBA containing stoichiometric amts. of amide-amines synthesized by reacting 1 mol of bis(4-chlorobenzoyl)dimethylsilane with 2 mol of 4,4'-diaminodiphenyl ether (E), 4,4'-diaminodiphenylmethane (M), 4,4'-diaminodiphenyl sulfone (pS), 3,3'-diaminodiphenyl sulfone (mS), bis(3-aminophenyl)methylphosphine oxide (B), or tris(3-aminophenyl)phosphine oxide (T) using dimethylacetamide as solvent. The interlaminar shear strength (ILSS), flexural strength and flexural modulus of the laminates were in the range of 7-21 MPa, 114-409 MPa and 10-28 GPa resp. The difference in flexural strength and flexural modulus of the composites can be attributed to the structure of the epoxy network. Storage modulus (E) of all composites calculated at 200° was in the range 5 + 102-33 + 102 MPa and the glass transition temperature (Tg) was in the range of 139-154°. The smoke d. decreased with an increase in the char yield whereas the presence of phosphorus in the resin resulted in a significant increase in LOI indicating its flame resistant characteristics.

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 500913-12-2P 500913-13-3P 524733-72-0P  
 RL: POF (Polymer in formulation); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
 (glass fabric-reinforced; structure effect on mech. and thermal properties of glass fabric-reinforced silicon-containing epoxy resin laminates)

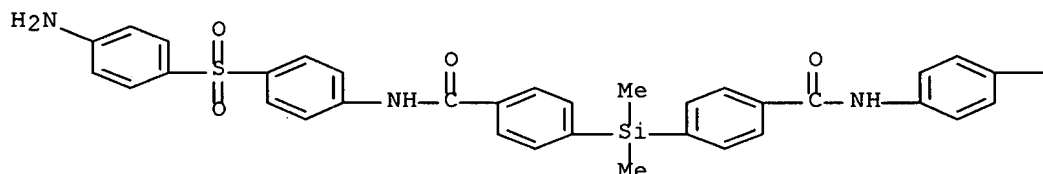
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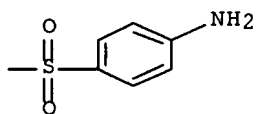
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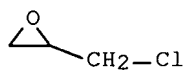
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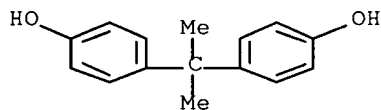
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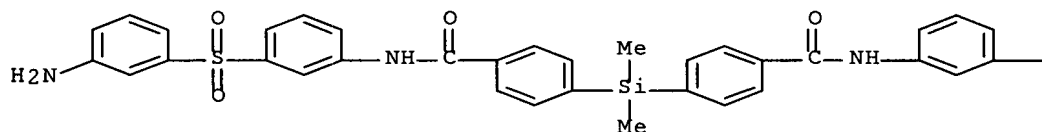
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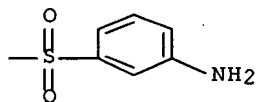
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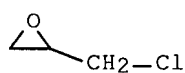
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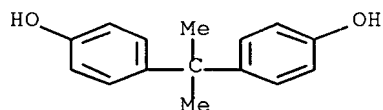
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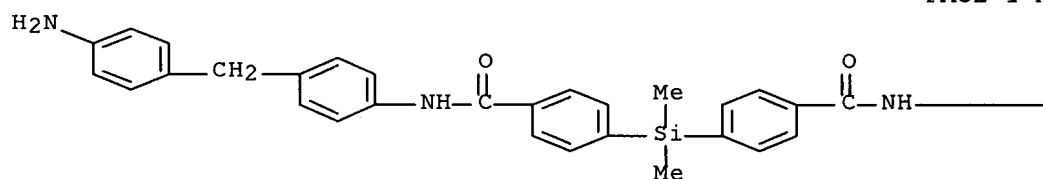
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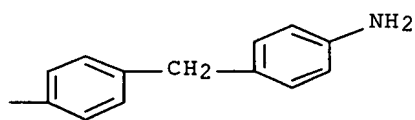
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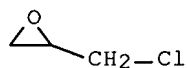
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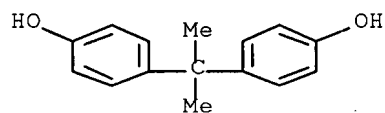
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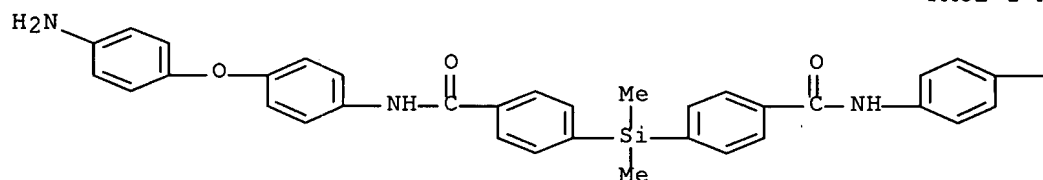
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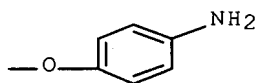
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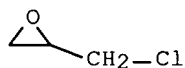
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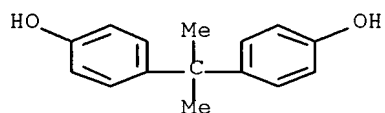
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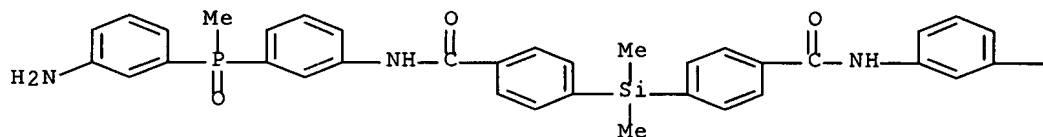
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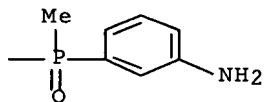
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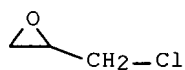
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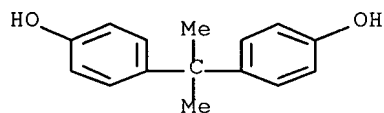
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CM 3

CRN 80-05-7

CMF C15 H16 O2



RN 524733-72-0 CAPLUS

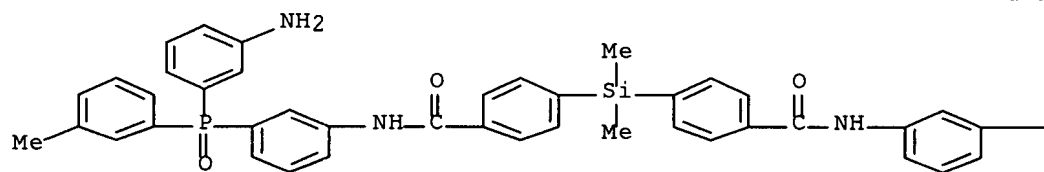
CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[(3-aminophenyl)(3-methylphenyl)phosphinyl]phenyl]-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

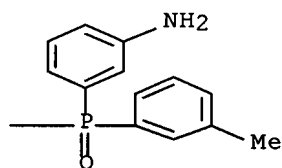
CRN 524733-71-9

CMF C54 H50 N4 O4 P2 Si

PAGE 1-A



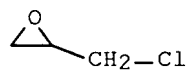
PAGE 1-B



CM 2

CRN 106-89-8

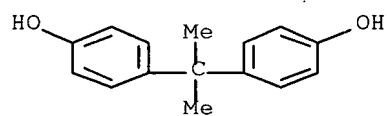
CMF C3 H5 Cl O



CM 3

CRN 80-05-7

CMF C15 H16 O2



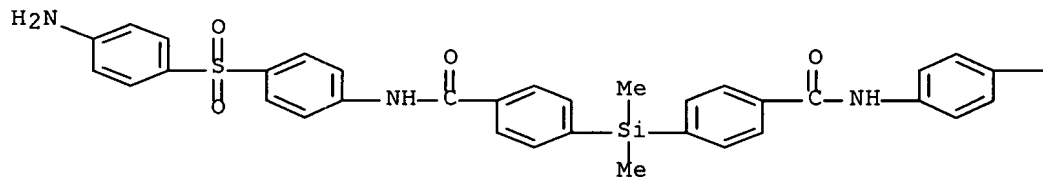
IT 500913-03-1P 500913-04-2P 500913-05-3P  
 500913-06-4P 500913-07-5P 524733-71-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)

(monomer; in study of structure effect on mech. and thermal properties  
of glass fabric-reinforced silicon-containing epoxy resin laminates)

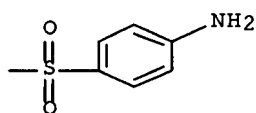
RN 500913-03-1 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[4-[(4-aminophenyl)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



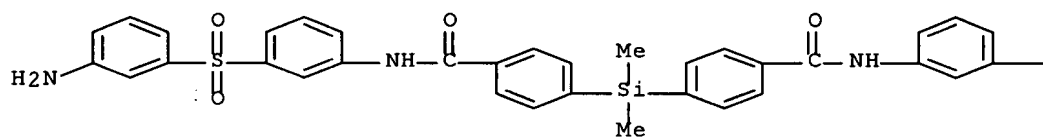
PAGE 1-B



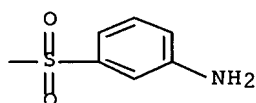
RN 500913-04-2 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[(3-aminophenyl)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



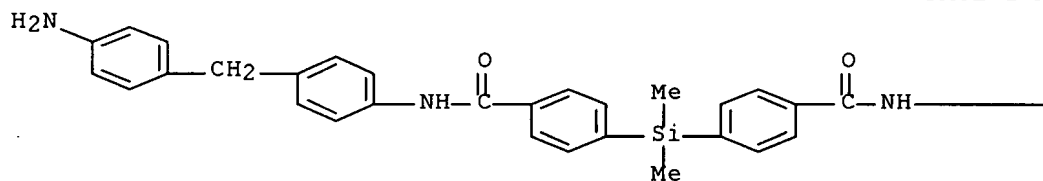
PAGE 1-B



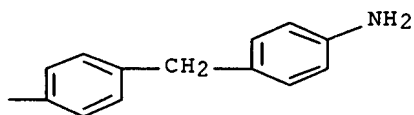
RN 500913-05-3 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[4-[(4-aminophenyl)methyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



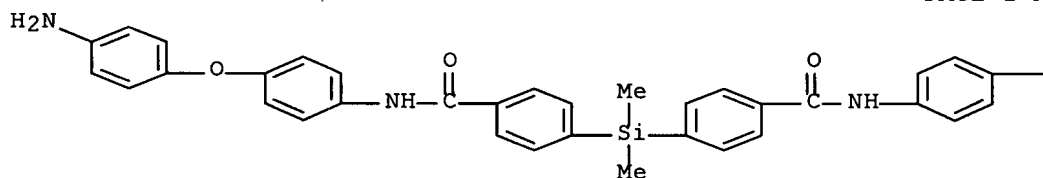
PAGE 1-B



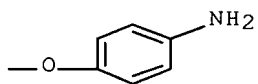
RN 500913-06-4 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[4-(4-aminophenoxy)phenyl]- (9CI)  
(CA INDEX NAME)

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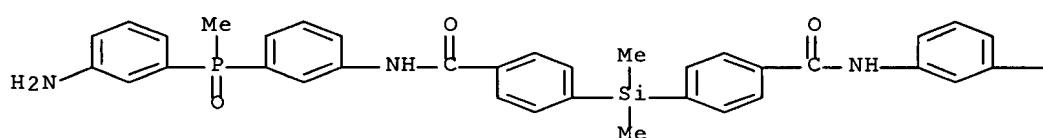
PAGE 1-B



RN 500913-07-5 CAPLUS

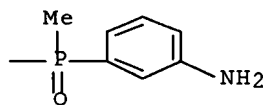
CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[(3-aminophenyl)methylphosphinyl]phenyl]- (9CI) (CA INDEX NAME)

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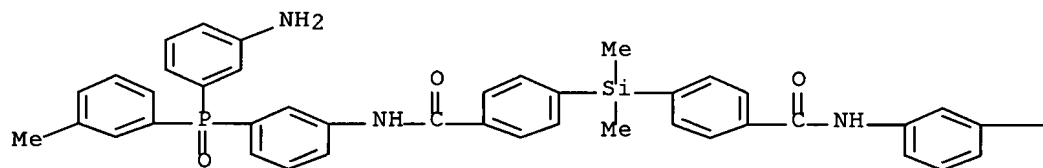
PAGE 1-B



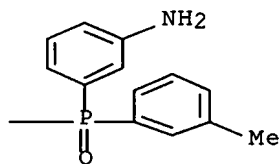
RN 524733-71-9 CAPLUS

CN Benzamide, 4,4'-(dimethylsilylene)bis[N-[3-[(3-aminophenyl)(3-methylphenyl)phosphinyl]phenyl]- (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 10 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:293620 CAPLUS Full-text

DOCUMENT NUMBER: 136:309846

TITLE: Preparation of substituted indoles as PPAR- $\gamma$  binding agents

INVENTOR(S): Stolle, Andreas; Dumas, Jacques P.; Carley, William; Coish, Phillip D. G.; Magnuson, Steven R.; Wang, Yamin; Nagarathnam, Dhanapalan; Lowe, Derek B.; Su, Ning; Bullock, William H.; Campbell, Ann-Marie; Qi, Ning; Baryza, Jeremy L.; Cook, James H.

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: PCT Int. Appl., 233 pp.

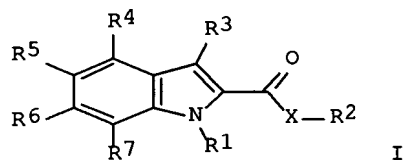
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

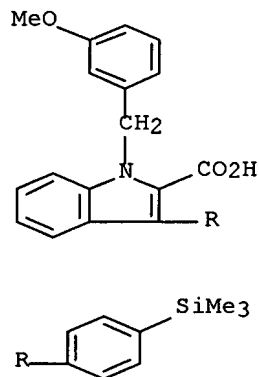
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030895	A1	20020418	WO 2001-US42644	20011009 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2427499	A1	20020418	CA 2001-2427499	20011009 <--
AU 200211901	A	20020422	AU 2002-11901	20011009 <--
US 2003087902	A1	20030508	US 2001-974319	20011009 <--
US 6787651	B2	20040907		
EP 1341761	A1	20030910	EP 2001-979996	20011009 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200302477	A2	20031229	HU 2003-2477	20011009 <--
CN 1505613	A	20040616	CN 2001-820314	20011009 <--
JP 2004529855	T	20040930	JP 2002-534281	20011009 <--
IN 2003KN00337	A	20050311	IN 2003-KN337	20030324 <--
ZA 2003002529	A	20040719	ZA 2003-2529	20030331 <--
NO 2003001619	A	20030602	NO 2003-1619	20030409 <--
MX 2003PA03174	A	20030714	MX 2003-PA3174	20030410 <--
PRIORITY APPLN. INFO.:			US 2000-239195P	P 20001010 <--
			US 2000-243665P	P 20001027 <--
			WO 2001-US42644	W 20011009 <--

OTHER SOURCE(S): MARPAT 136:309846  
 GI



AB The title compds. [I; R1 = R8R9; R8 = alkyl, alkenyl, alkynyl, etc.; R9 = (un)substituted Ph, cycloalkyl, heterocycloalkyl, etc.; X = (un)substituted NH, S, O; R2 = H, alkyl, halo, alkyl, etc.; R3 = R12R13; R12 = alkyl, alkenyl, alkynyl, CO; R13 = (un)substituted cycloalkyl, cycloalkenyl, heterocycloalkyl, etc.; R4-R7 = H, OH, etc.], useful in treating or preventing PPAR- $\gamma$  mediated diseases or conditions, such as osteopenia, osteoporosis, cancer, diabetes and atherosclerosis, were prepared. Thus, hydrolysis of Et 3-(cyclopropylidenemethyl)-1-[3-(trifluoromethyl)benzyl]-1H-indole-2-carboxylate (preparation given) with NaOH in H<sub>2</sub>O/THF afforded 57% I [R1 = 3-F<sub>3</sub>CC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>; X = O; R2 = H; R3 = cyclopropylidenemethyl; R4-R7 = H] which showed IC<sub>50</sub> of 100 pM and 9.99 nM against PPAR- $\gamma$  binding.

IT 412004-98-9P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of substituted indoles as PPAR- $\gamma$  binding agents)  
 RN 412004-98-9 CAPLUS  
 CN 1H-Indole-2-carboxylic acid, 1-[(3-methoxyphenyl)methyl]-3-[4-(trimethylsilyl)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:197575 CAPLUS Full-text  
 DOCUMENT NUMBER: 137:6694  
 TITLE: Tris- and tetrakis-[oligo(phenylenevinylene)]silanes: synthesis and luminescence behaviour  
 AUTHOR(S): Detert, Heiner; Sugiono, Erli  
 CORPORATE SOURCE: Institute for Organic Chemistry, Johannes Gutenberg-Universitat Mainz, Mainz, 55099, Germany  
 SOURCE: Synthetic Metals (2002), 127(1-3), 237-239  
 CODEN: SYMEDZ; ISSN: 0379-6779  
 PUBLISHER: Elsevier Science S.A.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

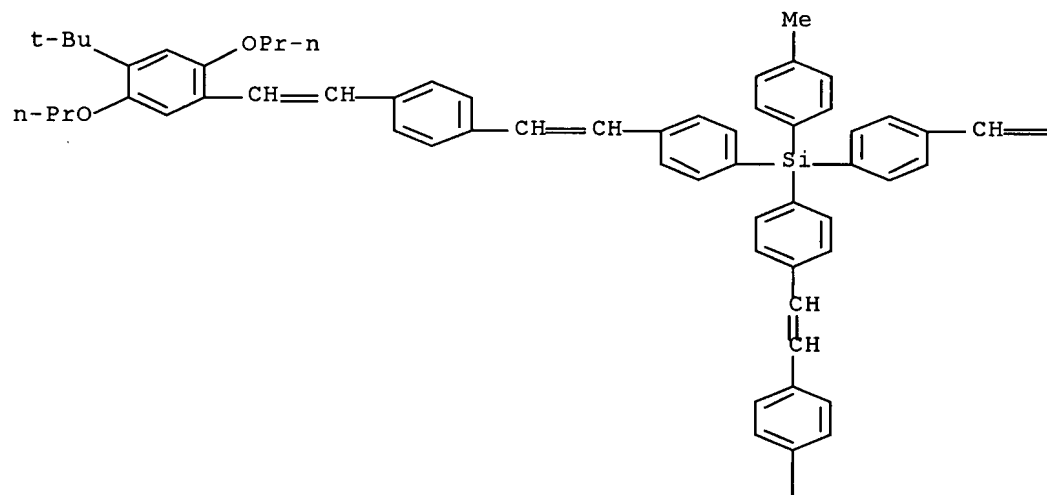
AB The connection of 3 or 4 monodisperse oligo(phenylenevinylene)s to a central silicon atom is performed via Wittig-Horner reactions. The terminal rings are substituted with alkoxy side chains. Depending on the ratio of the lengths of the rigid conjugated units and the flexible side chains, transparent films can be obtained from several of these trigonal-pyramidal or tetrahedral mols. An intense fluorescence in the blue-green region is emitted by mols. of either shape. These compds. are interesting as active materials for electro-optical applications due to their intense fluorescence and improved film forming capability.

IT 433729-28-3P 433729-29-4P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and luminescence of silanes tris- and tetrakis-substituted with oligo(phenylenevinylene))

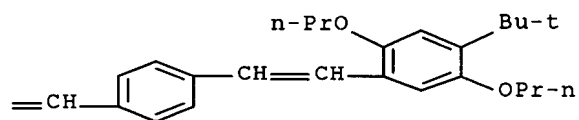
RN 433729-28-3 CAPLUS  
 CN Silane, tris[4-[2-[4-[2-[4-(1,1-dimethylethyl)-2,5-dipropoxyphenyl]ethenyl]phenyl]ethenyl]phenyl](4-methylphenyl)- (9CI) (CA

INDEX NAME)

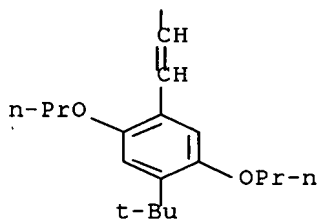
PAGE 1-A



PAGE 1-B

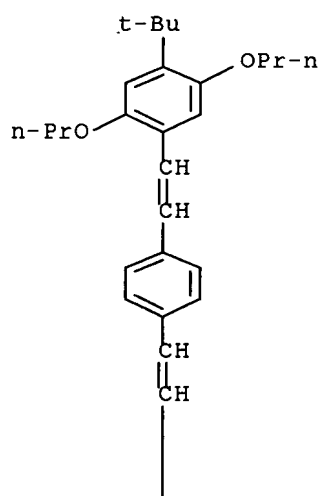
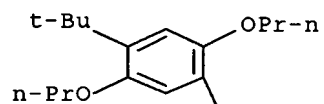


PAGE 2-A

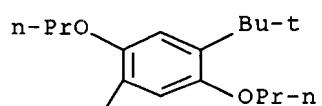


RN 433729-29-4 CAPLUS  
 CN Silane, tetrakis[4-[2-[4-[2-[4-(1,1-dimethylethyl)-2,5-dipropoxyphenyl]ethenyl]phenyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

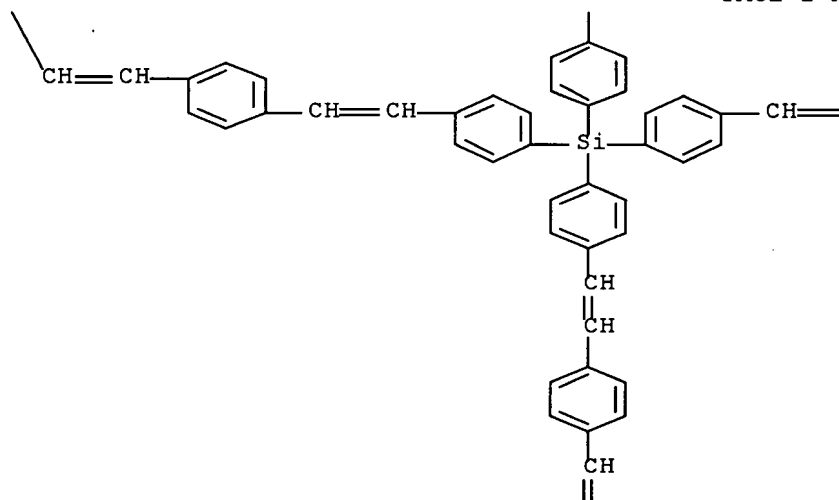
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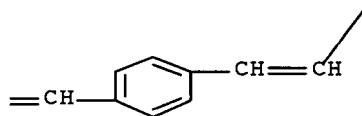
PAGE 1-B



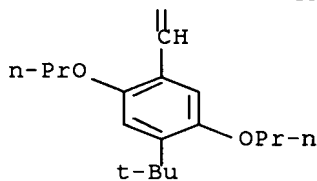
PAGE 2-A



PAGE 2-B



PAGE 3-A



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 12 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:37575 CAPLUS Full-text  
 DOCUMENT NUMBER: 134:237923  
 TITLE: Synthesis and characterization of silicon-containing poly(amide-amide)s  
 AUTHOR(S): Joshi, M. D.; Lonikar, S. V.; Maldar, N. N.  
 CORPORATE SOURCE: Department of Chemistry, Shivaji University Centre for Post Graduate Studies, Solapur, 413003, India  
 SOURCE: Journal of Applied Polymer Science (2000), Volume Date 2001, 79(9), 1610-1617

PUBLISHER: CODEN: JAPNAB; ISSN: 0021-8995  
 DOCUMENT TYPE: John Wiley & Sons, Inc.  
 LANGUAGE: Journal  
 English

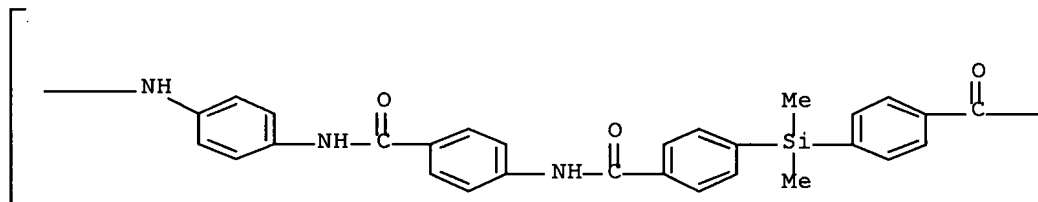
AB A modified new aromatic diacid, bis[4-(4-carboxyphenylcarbamoyl)phenyl]dimethylsilane (I) with preformed amide linkages and a silicon moiety was synthesized and characterized by IR, NMR, and mass spectroscopy, and other phys. consts. Novel polyamide-polysilphenylenes were synthesized from I and aromatic diamines by Yamazaki's direct polyamidation method in N-methylpyrrolidinone. The polymers were obtained in excellent yields and showed reduced viscosities in the range of 0.42-6.15 dL/g. They were readily soluble in aprotic polar solvents. These polymers showed glass-transition temps. of 303-378°C as measured by DSC and showed no weight loss below 377°C in a nitrogen atmospheric

IT 329950-16-5P 329950-18-7P 329950-24-5P  
 329950-28-9P 329950-30-3P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and properties of aromatic polyamide-polysilphenylenes)

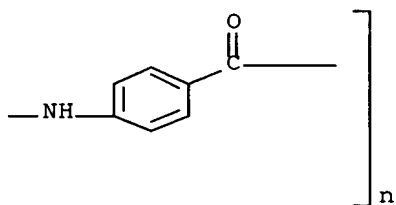
RN 329950-16-5 CAPLUS

CN Poly[imino-1,4-phenyleneiminocarbonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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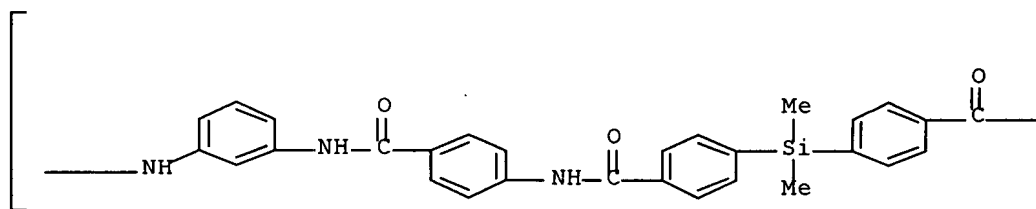
PAGE 1-B



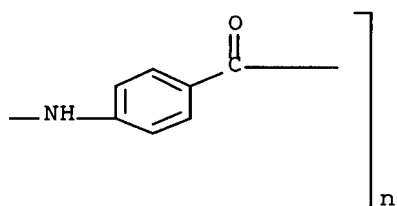
RN 329950-18-7 CAPLUS

CN Poly[imino-1,3-phenyleneiminocarbonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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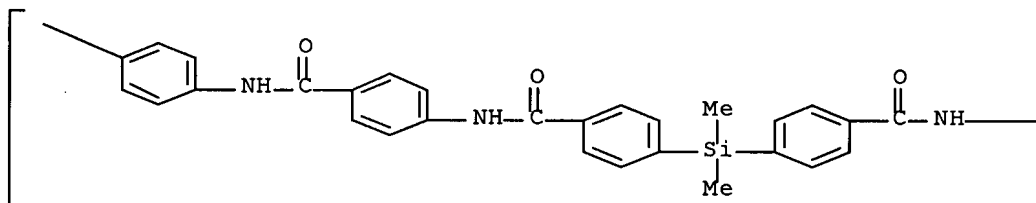
PAGE 1-B



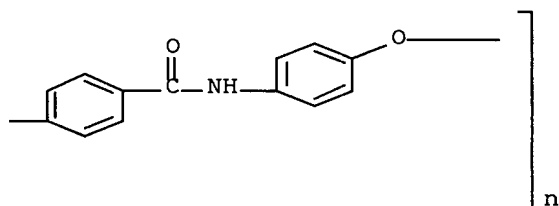
RN 329950-24-5 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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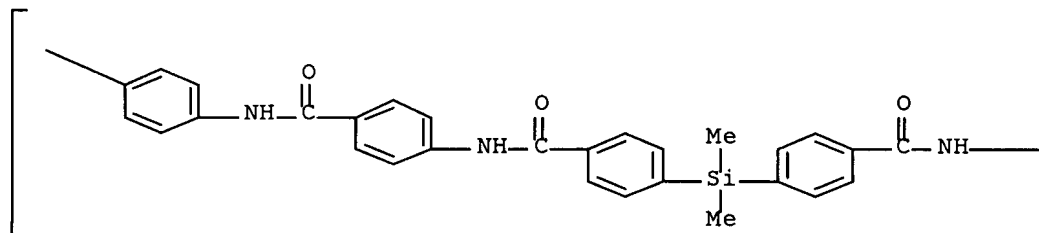
RN 329950-28-9 CAPLUS

CN Poly[sulfonyl-1,4-phenyleneiminocarbonyl-1,4-phenyleneiminocarbonyl-1,4-

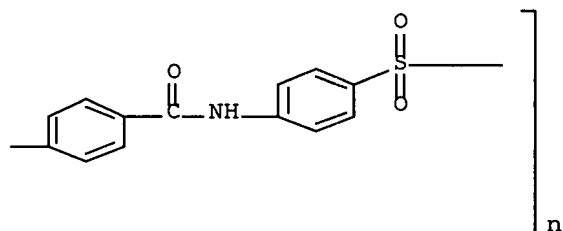


phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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RN 329950-30-3 CAPLUS

CN Poly[imino-1,5-naphthalenediyliminocarbonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:716804 CAPLUS Full-text

DOCUMENT NUMBER: 130:52943

TITLE: Silicon-containing poly(amide-ether)s

AUTHOR(S): Bruma, M.; Sava, I.; Mercer, F.; Reddy, V. N.; Kopnick, T.; Stiller, B.; Schulz, B.

CORPORATE SOURCE: Institute of Macromolecular Chemistry, Iasi, Rom.

SOURCE: Polymers for Advanced Technologies (1998), 9(10-11), 752-758

CODEN: PADTE5; ISSN: 1042-7147

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB New aromatic poly(amide-ether)s (II) have been synthesized by solution polycondensation of various aromatic diamines having two ether bridges (I) with a diacid chloride containing silicon, namely bis(chlorocarbonylphenyl)-diphenylsilane. These polymers are easy soluble in polar amidic solvents such

as N-methylpyrrolidinone or DMF and can be cast into thin flexible films or coatings from such solns. They show high thermal stability with initial decomposition temperature being above 400°C. Their glass transition temps. lie in the range of 220-250°C, except for polymer IIe which did not show a clear Tg when heated in a differential scanning calorimetry experiment up to 300°C. The large interval between the glass transition and decomposition temps. of polymers Ia-Id could be advantageous for their processing via compression molding. The polymer coatings deposited by the spin-coating technique onto silicon wafers showed a very smooth, pinhole-free surface in atomic force microscopy investigations. The free-standing films of 20-30µm thickness show low dielec. constant, in the range of 3.65-3.78, which is promising for future application as high performance dielects.

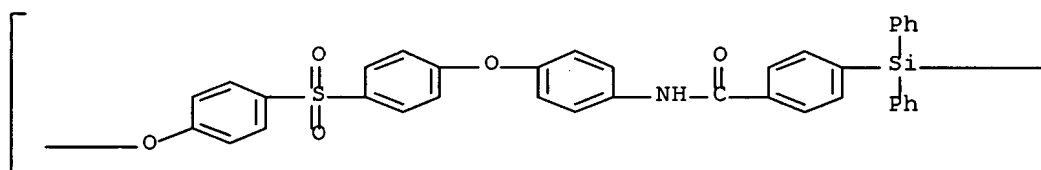
IT 132671-76-2P 217082-73-0P 217082-75-2P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and properties of bis(chlorocarbonylphenyl)-diphenylsilane-based polyamide-polyethers)

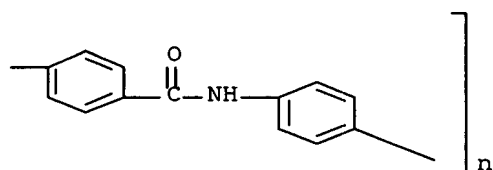
RN 132671-76-2 CAPLUS

CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
(9CI) (CA INDEX NAME)

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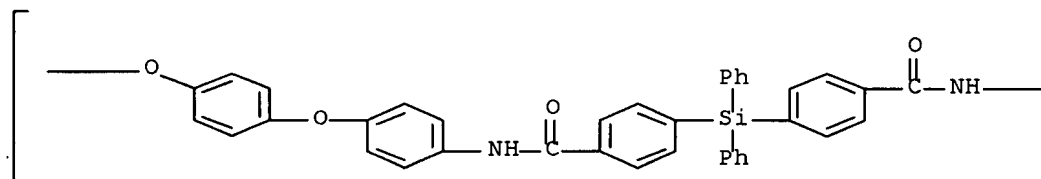
PAGE 1-B



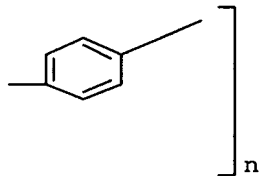
RN 217082-73-0 CAPLUS

CN Poly[oxy-1,4-phenyleneoxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
(9CI) (CA INDEX NAME)

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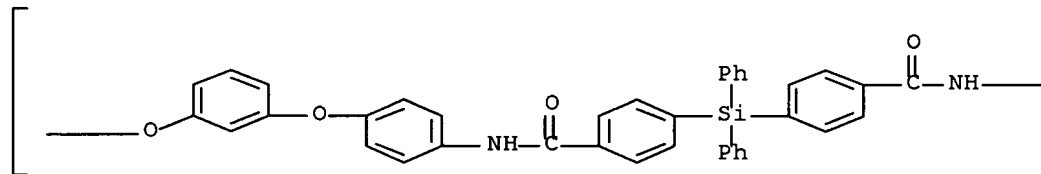


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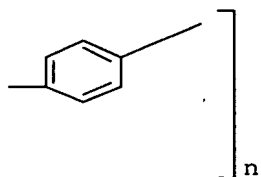


RN 217082-75-2 CAPLUS  
 CN Poly[oxy-1,3-phenyleneoxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
 (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 14 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998:531760 CAPLUS Full-text  
 DOCUMENT NUMBER: 129:260965

TITLE: Aromatic polyamides containing hexafluoroisopropylidene groups and study of thin films made therefrom

AUTHOR(S): Bruma, M.; Schulz, B.; Kopnick, T.; Stiller, B.; Hamciuc, E.; Mercer, F.; Cassidy, P.

CORPORATE SOURCE: Inst. Macromol. Chem., Iasi, Rom.

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1998), 39(2), 849-850  
CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

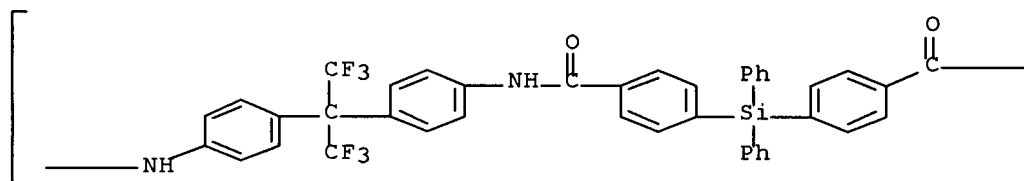
AB Aromatic polyamides were synthesized by reaction of hexafluoroisopropylidene-containing diamines with bis(p-chlorocarbonylphenyl)diphenylsilane or with 5-(3',4',5',6'-tetrachlorophthalimido)isophthaloyl chloride, or by polycondensation of 2,2-bis(p-chlorocarbonylphenyl)-hexafluoropropane with various diaminophenylquinoxalines. These polymers were easily soluble in polar amidic solvents and were processed from NMP-solns. into thin films, which were very smooth and free of pinholes when studied by atom force microscopy. They were stable to above 400°, showed glass transition temps., Tg, of 235°-270° except for polymers with pendent phthalimide groups which did not exhibit any Tg and displayed a dielec. constant of 3.2-3.6.

IT 194351-80-9P, 2,2-Bis(4-aminophenyl)hexafluoropropane-bis(p-chlorocarbonylphenyl)diphenylsilane copolymer, SRU 194351-82-1P, 2,2-Bis(3-aminophenyl)hexafluoropropane-bis(p-chlorocarbonylphenyl)diphenylsilane copolymer, SRU 213467-29-9P, 2,2-Bis(3-amino-4-methylphenyl)hexafluoropropane-bis(p-chlorocarbonylphenyl)diphenylsilane copolymer, SRU  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(aromatic polyamides containing hexafluoroisopropylidene groups and properties of thin films prepared from them)

RN 194351-80-9 CAPLUS

CN Poly[imino-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A

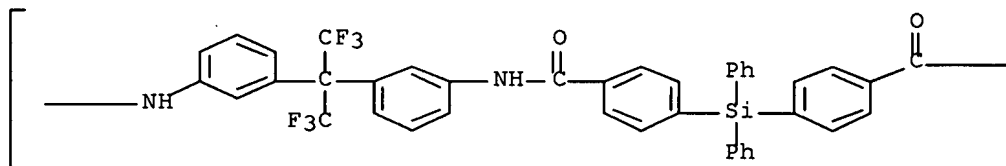


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RN 194351-82-1 CAPLUS  
 CN Poly[imino-1,3-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,3-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

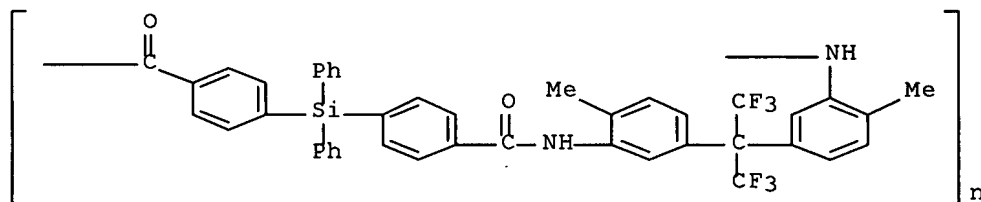
PAGE 1-A



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RN 213467-29-9 CAPLUS  
 CN Poly[imino(6-methyl-1,3-phenylene)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](4-methyl-1,3-phenylene)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:323665 CAPLUS Full-text

DOCUMENT NUMBER: 129:41466

TITLE: Synthesis and characterization of amorphous polyamides containing oxyethylene and silicon in the main chain

AUTHOR(S): Lee, Yang-Hee; So, Bong-Keun; Bang, Myung-Sik; Lee,

Soo-Min  
CORPORATE SOURCE: Dep. Chem., Univ. Hannam, Taejon, 300-791, S. Korea  
SOURCE: Polymer (Korea) (1998), 22(2), 209-216  
CODEN: POLLDG; ISSN: 0379-153X  
PUBLISHER: Polymer Society of Korea  
DOCUMENT TYPE: Journal  
LANGUAGE: Korean

AB Aromatic polyamides containing Si and oxyethylene units in the main chain were prepared by low-temperature interfacial polycondensation of various aromatic diamines with bis(4-chlorocarbonylphenyl)dimethylsilane. The polymers were amorphous and most were soluble in organic solvents such as NMP, DMF, Me<sub>2</sub>NAC, DMSO, and m-cresol. The inherent viscosities were 0.43-1.08 dL/g. Cast transparent, flexible films were prepared with good tensile properties. The T<sub>g</sub>s of the polyamides containing oxyethylene groups were 115-287°. The 10% weight loss temps. in N were 434-477°.

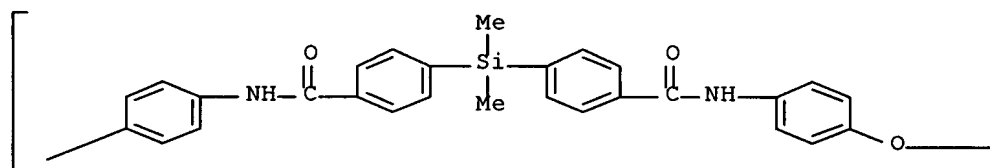
IT 92489-03-7P 208396-83-2P 208396-85-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and properties of)

RN 92489-03-7 CAPLUS

CN	Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)
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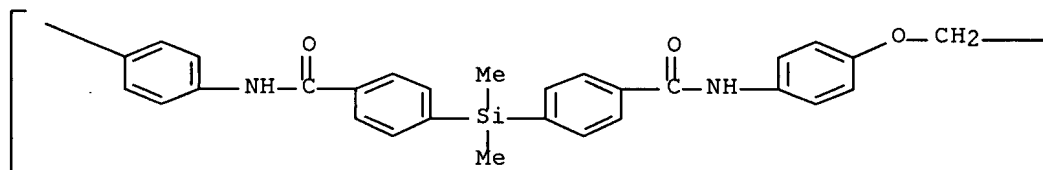
PAGE 1-B



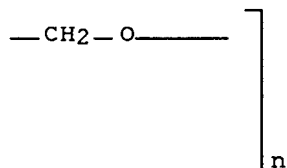
RN 208396-83-2 CAPLUS

CN Poly[oxy-1,2-ethanediyl-oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
 (9CI) (CA INDEX NAME)

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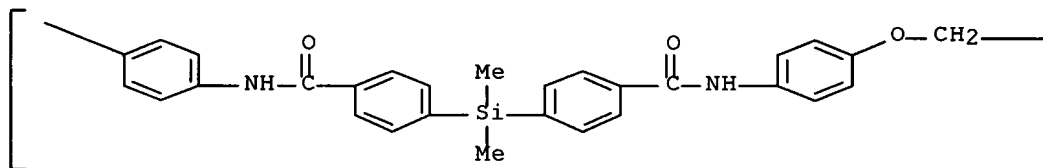
PAGE 1-B



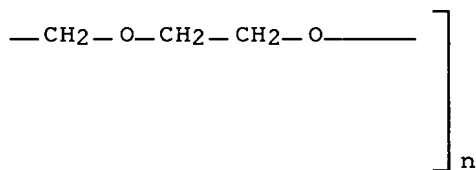
RN 208396-85-4 CAPLUS

CN Poly[oxy-1,2-ethanedioxy-1,2-ethanedioxy-1,4-phenyleneiminocarbonyl-  
1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
(9CI) (CA INDEX NAME)

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L14 ANSWER 16 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:192175 CAPLUS Full-text

DOCUMENT NUMBER: 128:223712

TITLE: Blue light-emitting silyl group-containing conjugated  
polymers and light-emitting diode adopting the same

INVENTOR(S): Hwang, Do-hoon; Shim, Hong-ku; Sakong, Dong-sik  
 PATENT ASSIGNEE(S): S. Korea  
 SOURCE: U.S., 9 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5731599	A	19980324	US 1995-562025	19951122 <--
KR 155863	B1	19981116	KR 1995-23528	19950731 <--

PRIORITY APPLN. INFO.: KR 1995-23528 A 19950731 <--

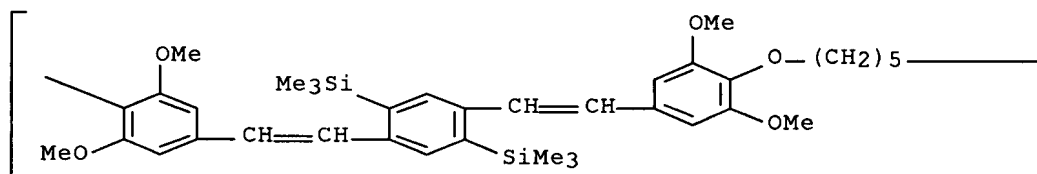
AB A blue light-emitting polymers (weight-average mol. weight 5,000-30,000) comprise [XCH:CHYCH:CHZO(CH<sub>2</sub>)<sub>n</sub>O], wherein X is 1,4-phenylene, 2,5-dimethoxy-1,4-phenylene; Y is 2,5-bis(trialkylsilyl)-1,4-phenylene, 2-trialkylsilyl-1,4-phenylene; Z is 1,4-phenylene, 2,5-dimethoxy-1,4-phenylene; n is 1-20; and m is 5-100. The blue light-emitting polymer are used in light-emitting diodes. The polymers have good solubility in organic solvents. Light-emitting diodes having an anode and a cathode on both sides of the conjugated polymer layer, resp. are capable of showing extended emission in the blue region and have excellent light-emitting efficiency. A polymer with blue-emitting properties was prepared by polymerization of 2,5-bis(trimethylsilyl)-1,4-xylenebis(tri-Ph phosphonium bromide) and 1,3-bis(4-formylphenoxy)propane.

IT 161960-61-8P  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (blue light-emitting silyl group-containing conjugated polymers and light-emitting diode adopting the same)

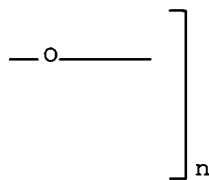
RN 161960-61-8 CAPLUS

CN Poly[oxy-1,5-pentanedioxy(2,6-dimethoxy-1,4-phenylene)-1,2-ethenediyl[2,5-bis(trimethylsilyl)-1,4-phenylene]-1,2-ethenediyl(3,5-dimethoxy-1,4-phenylene)] (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 17 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:10917 CAPLUS Full-text

DOCUMENT NUMBER: 128:115496

TITLE: Compared properties of aromatic polyamides containing silicon in the main chain

AUTHOR(S): Sava, Ion; Szesztay, Marta; Bruma, Maria; Mercer, Frank; Schulz, Burkhard

CORPORATE SOURCE: Institute Macromolecular Chemistry, Iasi, R-6600, Rom.  
SOURCE: Angewandte Makromolekulare Chemie (1997), 253, 169-182

CODEN: ANMCBO; ISSN: 0003-3146

PUBLISHER: Huethig & Wepf Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two series of aromatic polyamides incorporating Si together with phenylquinoxaline or with hexafluoroisopropylidene groups were synthesized and their properties were characterized and compared with those of related polymers. These polymers are easily soluble in polar amidic solvents such as N-methyl-2-pyrrolidinone and DMF, and in THF, and can be cast into thin, transparent films from solution. The polyamides have weight- and number-average mol. wts. in the range of 10,000-40,000 and 3000-6000, resp., and polydispersities in the range of 3-10. They show glass transition temps. in the range of 236-275 and decomposition temps. >400°. The polymer films have low dielec. consts. in the range of 3.26-3.68, and good mech. properties (tensile strength 74-100 MPa, tensile modulus 180-386 MPa), thus being comparable with other high performance dielects.

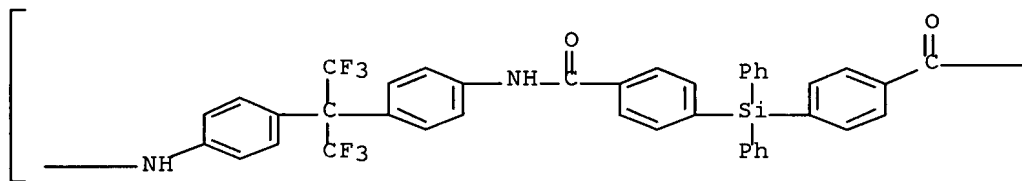
IT 194351-80-9P 194351-82-1P 194351-84-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(thermal and dielec. properties of aromatic polyamide-polycarbosilanes)

RN 194351-80-9 CAPLUS

CN Poly[imino-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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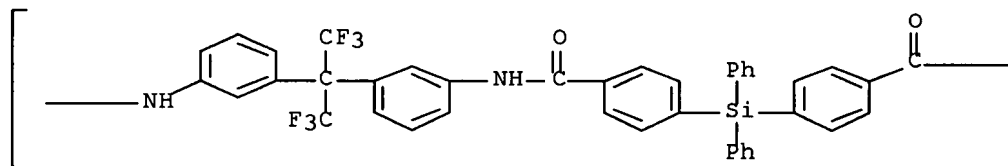
PAGE 1-B

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RN 194351-82-1 CAPLUS

CN Poly[imino-1,3-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,3-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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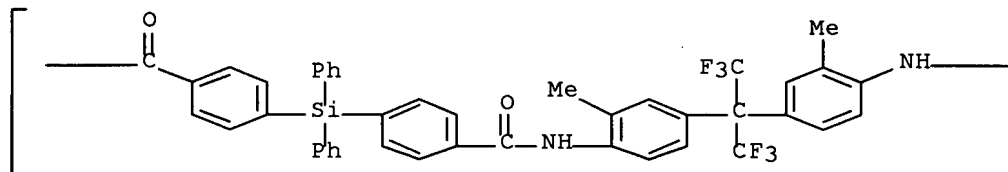
PAGE 1-B



RN 194351-84-3 CAPLUS

CN Poly[imino(2-methyl-1,4-phenylene)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](3-methyl-1,4-phenylene)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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L14 ANSWER 18 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:674769 CAPLUS Full-text

DOCUMENT NUMBER: 127:307909

TITLE: A simulation of thermal characteristic parameters with  
an inverse "S" type curve

AUTHOR(S): Chang, Mian; Yu, Jiayou; Wang, Shaojun; Yang, Liping;  
Yang, Yi; Cai, Shihao; Shi, Shouheng; Wang, Yan; Zhu,  
P. W.

CORPORATE SOURCE: Dalian Institute of Light Industry, Dalian, 116001,  
Peop. Rep. China

SOURCE: Science in China, Series B: Chemistry (1997), 40(5), 529-534

CODEN: SCBCFQ; ISSN: 1006-9291

PUBLISHER: Science in China Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A synthetic equation is proposed to characterize the essential features of the inverse "S" type curve on the basis of summing-up simulation approach of "S" type curve. The 2 phys. variables in the model obtained are discussed and the detailed method used to determine the parameters is given. The model is then presented to describe the crystallization of poly (arylether ether ketone) (PEEK) and thermal decomposition of poly (amide-imide) (PAI) resp. Some thermal characteristic parameters can be estimated well from the model simulated in computer.

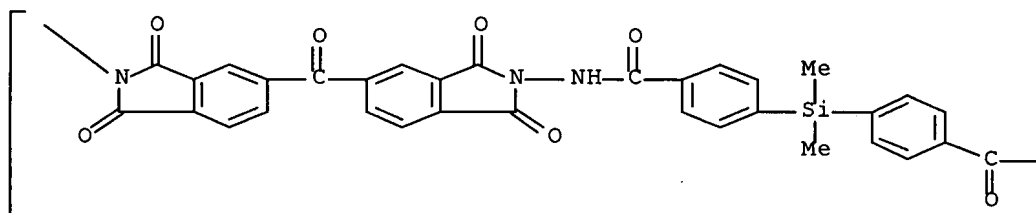
IT 98060-33-4, 4,4'-Carbonylbis[phthalic anhydride]-4,4'-  
dimethylsilylenebis[benzoic hydrazide] copolymer, sru

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

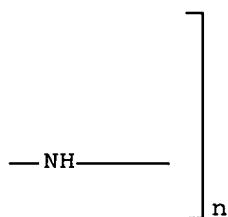
(simulation of thermal characteristic parameters with inverse S-type curve)

RN 98060-33-4 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl) carbonyl (1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl) iminocarbonyl-1,4-phenylene (dimethylsilylene)-1,4-phenylenecarbonylimino] (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 19 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:577539 CAPLUS Full-text  
 Correction of: 1997:380835  
 DOCUMENT NUMBER: 127:177235  
 Correction of: 126:344007  
 TITLE: Blue-luminescent polymers and light-emitting diode containing them  
 INVENTOR(S): Hwang, Do Hoon; Shim, Hong Koo; Shiku, Doten  
 PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09104732	A	19970422	JP 1996-16825	19960201 <--
JP 3272230	B2	20020408		

PRIORITY APPLN. INFO.: JP 1995-195461 A 19950731 <--

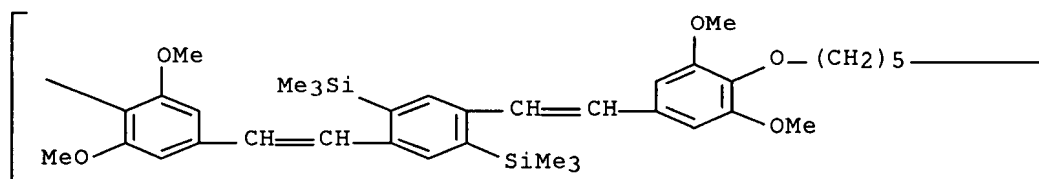
AB Blue-luminescent polymers are synthesized by polymerizing a bis(triphenylphosphonium)phenylene-type compound with a diformyl compound through Wittig-type reaction. Thus 2,5-bis(trimethylsilyl)-1,4-xylenebis(triphenylphosphonium bromide) and 1,3-bis(4-formylphenoxy)propane were synthesized and polymerized to give a polymer with number-average mol. weight 2100, weight-average mol. weight 7200, PL 490 and 467 nm, and EL 470 nm. A light-emitting diode comprises pos. electrode layer, a neg. electrode layer, and a layer of the blue luminescent polymer in between the two electrode layers.

IT 161960-61-8P  
 RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)  
 (preparation of blue-luminescent polymers and light-emitting diode containing them)

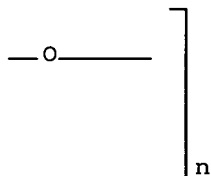
RN 161960-61-8 CAPLUS

CN Poly[oxy-1,5-pentanedioxy(2,6-dimethoxy-1,4-phenylene)-1,2-ethenediyl[2,5-bis(trimethylsilyl)-1,4-phenylene]-1,2-ethenediyl(3,5-dimethoxy-1,4-phenylene)] (9CI) (CA INDEX NAME)

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L14 ANSWER 20 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:520567 CAPLUS Full-text

DOCUMENT NUMBER: 127:191342

TITLE: Synthesis and properties of silicon-containing polyamides

AUTHOR(S): Sava, I.; Bruma, M.; Schulz, B.; Mercer, F.; Reddy, V. N.; Belomonia, N.

CORPORATE SOURCE: Institute of Macromolecular Chemistry, Iasi, Rom.

SOURCE: Journal of Applied Polymer Science (1997), 65(8), 1533-1538

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER: Wiley

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of aromatic polyamides incorporating silicon together with phenylquinoxaline or with hexafluoroisopropylidene groups has been synthesized by solution polycondensation of a silicon-containing diacid chloride with aromatic diamines having phenylquinoxaline rings or hexafluoroisopropylidene groups. These polymers are easily soluble in polar aprotic solvents, such as N-methylpyrrolidinone and DMF, and in THF, and can be solution-cast into thin, transparent films having low dielec. constant, in the range of 3.26 to 3.68. These polymers show high thermal stability with decomposition temperature being above 400°C and glass transition temperature in the range of 236°C to 275°C.

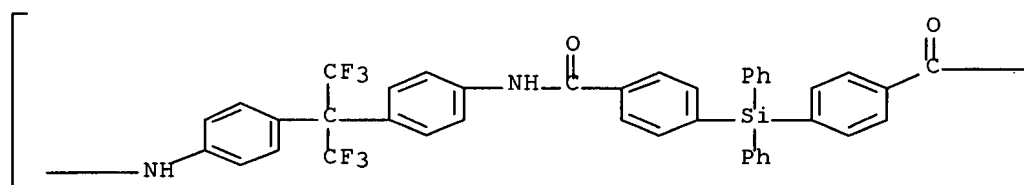
IT 194351-80-9P 194351-82-1P 194351-84-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and properties of)

RN 194351-80-9 CAPLUS

CN Poly[imino-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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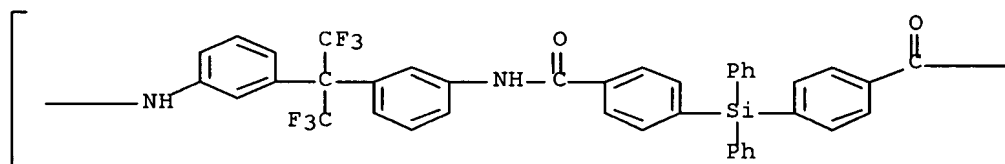
PAGE 1-B



RN 194351-82-1 CAPLUS

CN Poly[imino-1,3-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,3-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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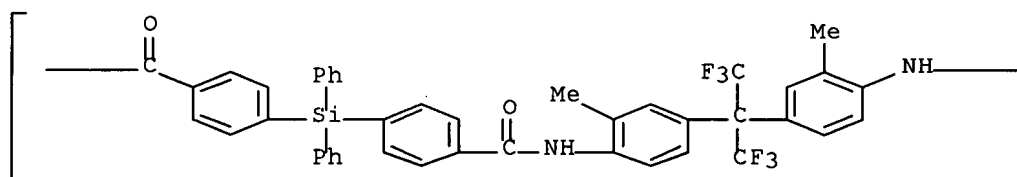
PAGE 1-B



RN 194351-84-3 CAPLUS

CN Poly[imino(2-methyl-1,4-phenylene)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](3-methyl-1,4-phenylene)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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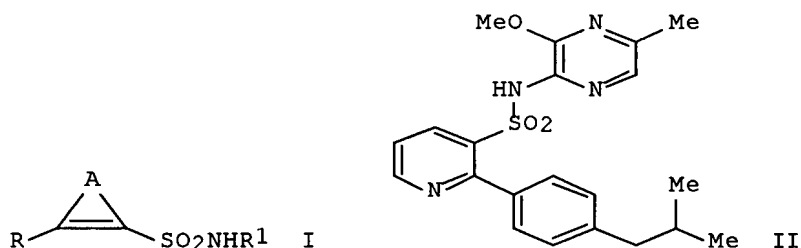
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L14 ANSWER 21 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:132770 CAPLUS Full-text  
 DOCUMENT NUMBER: 126:144291  
 TITLE: N-pyrazinyl-2-phenyl-3-pyridinesulfonamides and  
 analogs endothelin receptor antagonists  
 INVENTOR(S): Bradbury, Robert Hugh; Butlin, Roger John; James,  
 Roger  
 PATENT ASSIGNEE(S): Zeneca Limited, UK  
 SOURCE: PCT Int. Appl., 108 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9640681	A1	19961219	WO 1996-GB1295	19960603 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
CA 2219742	A1	19961219	CA 1996-2219742	19960603 <--
CA 2219742	C	20070116		
AU 9658403	A	19961230	AU 1996-58403	19960603 <--
AU 715041	B2	20000113		
EP 832082	A1	19980401	EP 1996-919941	19960603 <--
EP 832082	B1	20011121		
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CN 1192739	A	19980909	CN 1996-196149	19960603 <--
CN 1097051	B	20021225		
BR 9608611	A	19990511	BR 1996-8611	19960603 <--

JP 11509175	T	19990817	JP 1997-500209	19960603 <--
JP 3193058	B2	20010730		
HU 9802300	A2	19991028	HU 1998-2300	19960603 <--
NZ 308619	A	20000128	NZ 1996-308619	19960603 <--
RU 2172738	C2	20010827	RU 1998-100054	19960603 <--
AT 209200	T	20011215	AT 1996-919941	19960603 <--
SK 282338	B6	20020107	SK 1997-1680	19960603 <--
CZ 289387	B6	20020116	CZ 1997-3887	19960603 <--
PT 832082	T	20020429	PT 1996-919941	19960603 <--
IL 122464	A	20020523	IL 1996-122464	19960603 <--
ES 2168487	T3	20020616	ES 1996-919941	19960603 <--
PL 187897	B1	20041029	PL 1996-324660	19960603 <--
ZA 9604615	A	19961209	ZA 1996-4615	19960604 <--
US 5866568	A	19990202	US 1996-658969	19960604 <--
IN 1996DE01209	A	20050311	IN 1996-DE1209	19960604 <--
HR 960272	B1	20060630	HR 1996-272	19960606 <--
NO 9705700	A	19971205	NO 1997-5700	19971205 <--
NO 314503	B1	20030331		
HK 1005801	A1	20021220	HK 1998-105010	19980606 <--
US 6060475	A	20000509	US 1998-211483	19981214 <--
US 6258817	B1	20010710	US 2000-504364	20000215 <--
PRIORITY APPLN. INFO.:			GB 1995-11507	A 19950607 <--
			GB 1995-19666	A 19950927 <--
			WO 1996-GB1295	W 19960603 <--
			US 1996-658969	A3 19960604 <--
			US 1998-211483	A3 19981214 <--

OTHER SOURCE(S): MARPAT 126:144291  
GI



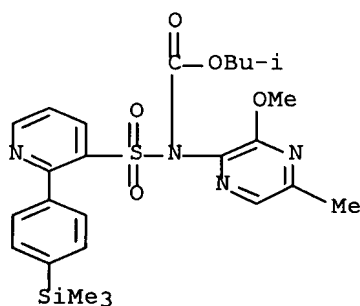
AB Title compds. [I; A = atoms to complete an (un)substituted pyridine ring; R = (un)substituted Ph; R<sub>1</sub> = (un)substituted heteroarom. ring containing 2 N atoms] were prepared. Thus, iso-Bu N-(3-methoxy-5-methyl-2-pyrazinyl)carbamate was amidated by 2-chloropyridine-3-sulfonyl chloride (preparation each given) and the product arylated by 4-(Me<sub>2</sub>CHCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>B(OH)<sub>2</sub> to give, after deprotection, title compound II. Data for biol activity of I were given.

IT 186497-90-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of n-pyrazinyl-2-phenyl-3-pyridinesulfonamides and analogs endothelin receptor antagonists)

RN 186497-90-5 CAPLUS

CN Carbamic acid, (3-methoxy-5-methylpyrazinyl)[[2-[4-(trimethylsilyl)phenyl]-3-pyridinyl]sulfonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)





L14 ANSWER 22 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:8534 CAPLUS Full-text

DOCUMENT NUMBER: 126:60431

TITLE: Synthesis and properties of novel aromatic polyimides derived from bis(p-aminophenoxy)methylphenylsilane

AUTHOR(S): Liaw, Der-Jang; Yang, Wen-Chung Ou; Li, Lain-Jong; Yang, Mei-Hui

CORPORATE SOURCE: Dep. Chem. Eng., Natl. Taiwan Inst. Technology, Taipei, 106, Taiwan

SOURCE: Journal of Applied Polymer Science (1997), 63(3), 369-376

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER: Wiley

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A novel siloxane-containing diamine, bis(p-aminophenoxy)methylphenylsilane (BAMPS), was synthesized by condensation of dichloromethylphenylsilane with p-aminophenol in the presence of triethylamine. A series of BAMPS-based aromatic polyimides were prepared from BAMPS and various aromatic tetracarboxylic dianhydrides by the usual two-step procedure including ring-opening polyaddn. to poly(amic acid)s and subsequent cyclodehydration to polyimides. The inherent viscosities of poly(amic acid)s were 0.09-0.36 dL g<sup>-1</sup> in N,N-dimethylacetamide at a concentration of 0.5 g dL<sup>-1</sup> at 30°. The inherent viscosities of polyimides were 0.06-0.32 dL g<sup>-1</sup> in various solvents at 30°. Polyimides were soluble in a wide range of organic solvents such as N-methyl-2-pyrrolidinone, concentrated H<sub>2</sub>SO<sub>4</sub>, N,N-dimethylacetamide, N,N-dimethylformamide, and DMSO. The polyimides were characterized by elementary anal., IR spectra, TGA, and DSC. They also had glass transition temps. 128-181°. The 10% mass loss temperature was recorded at 404-443° in nitrogen and 315-339° in oxygen.

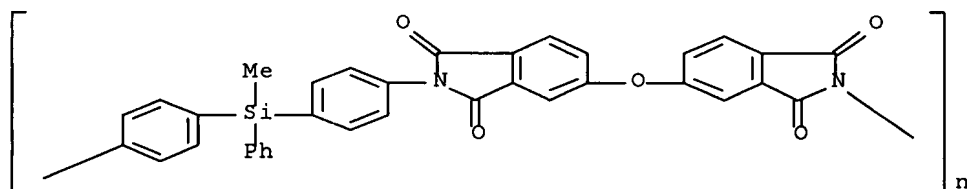
IT 184960-00-7P 184960-02-9P 184960-04-1P

184960-06-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis and thermal properties, viscosity, and solubility of aromatic polyimides derived from bis(p-aminophenoxy)methylphenylsilane)

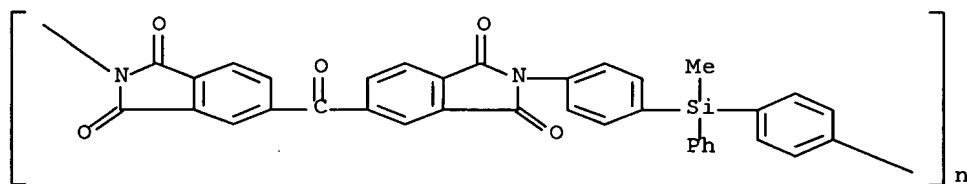
RN 184960-00-7 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)oxy(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(methylphenylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



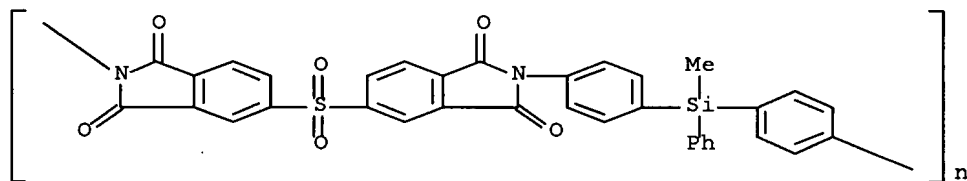
RN 184960-02-9 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(methylphenylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



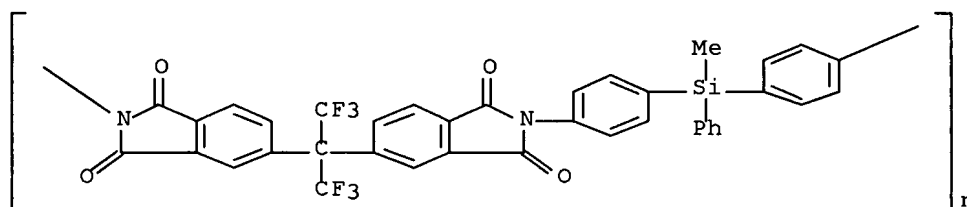
RN 184960-04-1 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)sulfonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(methylphenylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 184960-06-3 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene](1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(methylphenylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 23 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:589659 CAPLUS Full-text

DOCUMENT NUMBER: 123:10606

TITLE: Synthesis of silicon-containing polyaramides and their gas permselectivity

AUTHOR(S): Zhang, Jian; Hou, Xiaohuai

CORPORATE SOURCE: Inst. Chem., Academia Sinica, Beijing, 100080, Peop. Rep. China

SOURCE: Gaofenzi Xuebao (1995), (2), 182-8

CODEN: GAXUE9; ISSN: 1000-3304

PUBLISHER: Kexue

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB A series of silicon-containing polyaramides were synthesized by method of interfacial polycondensation, and the relationship between their chemical structure and gas-transport property was discussed. The permeability for gases (H, N, O, CH<sub>4</sub>, CO<sub>2</sub>) used in this experiment follows the rules for ordinary glassy polymer. Gas permeability increases by introducing flexible segment into rigid polymer chain. Polyaramide with easily rotational backbone has higher gas permeability. For two polymers with the same backbone, gas permeability is higher for one with Me side group on its aromatic ring. The polyaramide with Ph side group on silicon atom has higher diffusivity, but lower solubility than that with Me side group on silicon atom. In addition to intrachain motion, interchain spacing difference is a contributing factor in understanding various transport behavior of gas through these silicon-containing polyaramide.

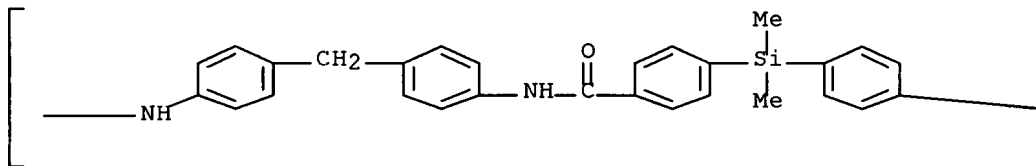
IT 92489-02-6P, Bis(4-chlorocarbonylphenyl)dimethylsilane-4,4'-diaminodiphenylmethane copolymer, sru 92489-03-7P, Bis(4-chlorocarbonylphenyl)dimethylsilane-4,4'-diaminodiphenyl ether copolymer, sru 163780-55-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis of silicon-containing polyaramides and their gas permselectivity)

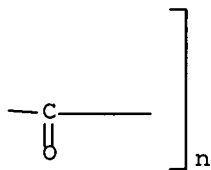
RN 92489-02-6 CAPLUS

CN Poly[imino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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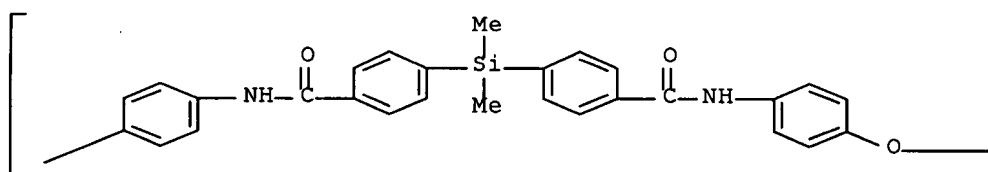
PAGE 1-B



RN 92489-03-7 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



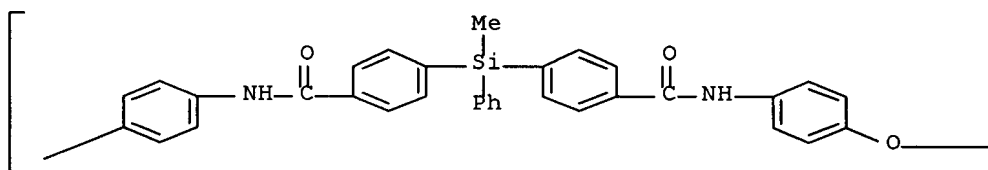
PAGE 1-B



RN 163780-55-0 CAPLUS

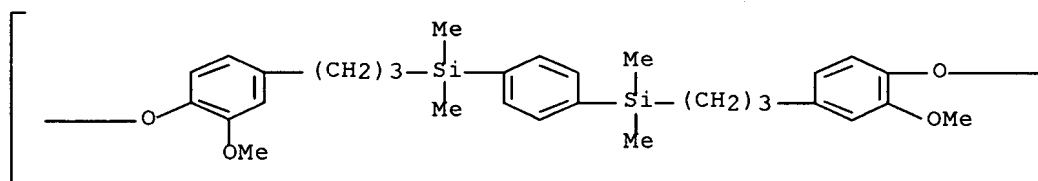
CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(methylphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

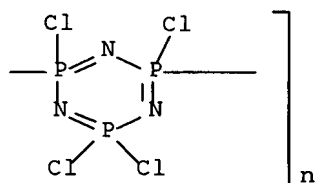
PAGE 1-A



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L14 ANSWER 24 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1995:476652 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:240580  
 TITLE: Silicon-containing polymers derived from mono and  
 disubstituted cyclophosphazenes  
 AUTHOR(S): Van de Grampel, Johan C.; Van de Grampel, Robert D.;  
 Hendriks, Rachel H. J.; Jekel, Andries P.; Meetsma,  
 Auke; Veldman, Erwin G. M.; Wubbels, Jan H.  
 CORPORATE SOURCE: Dep. Polym. Chem., Univ. Groningen, Groningen, 9747  
 AG, Neth.  
 SOURCE: Phosphorus, Sulfur and Silicon and the Related  
 Elements (1994), 93-94(1-4), 273-6  
 CODEN: PSSLEC; ISSN: 1042-6507  
 PUBLISHER: Gordon & Breach  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Two classes of silicon-containing polymers are described, one with phosphazene  
 rings as part of the polymer backbone, another with phosphazene rings as  
 pendant groups.  
 IT 162523-38-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (silicon-containing polymers derived from mono- and disubstituted  
 cyclophosphazenes)  
 RN 162523-38-8 CAPLUS  
 CN Poly[(2,4,6,6-tetrachloro-2,2,4,4,6,6-hexahydro-1,3,5,2,4,6-  
 triazatriphosphorine-2,4(2H,4H)-diyl)oxy(2-methoxy-1,4-phenylene)-1,3-  
 propanediyl(dimethylsilylene)-1,4-phenylene(dimethylsilylene)-1,3-  
 propanediyl(3-methoxy-1,4-phenylene)oxy] (9CI) (CA INDEX NAME)





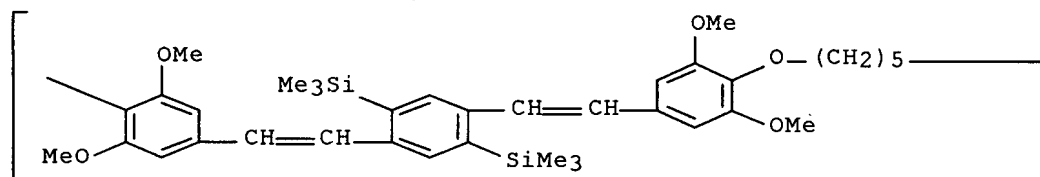
L14 ANSWER 25 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1995:411194 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:214712  
 TITLE: Synthesis and characterization of blue light-emitting polymers containing phenylenevinylene units  
 AUTHOR(S): Hwang, Do-Hoon; Kang, In-Nam; Jang-Min-Sik; Shim, Hong-Ku  
 CORPORATE SOURCE: Dep. Chem., Korea Adv. Inst. Sci. Technol., Taejon, 305-701, S. Korea  
 SOURCE: Bulletin of the Korean Chemical Society (1995), 16(2), 135-8  
 CODEN: BKCSDE; ISSN: 0253-2964  
 PUBLISHER: Korean Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB A series of new polymers containing phenylenevinylene (PV) units were synthesized by Wittig polycondensation reaction. Properties of the synthesized polymers were characterized by FTIR and UV-visible spectroscopy, and their light-emitting properties were studied. All of the synthesized polymers were soluble in organic solvents and showed good film quality. The absorption maxima and band edges of the polymers were moved to shorter wavelength region by reducing the electron donating alkoxy groups incorporated in phenylenevinylene unit. The photo-induced emission spectra were obtained and all of the polymers revealed their emission of blue region. The observed emission maxima of the polymers was 480-495 nm.

IT 161960-61-8P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of blue light-emitting polyphenylenevinylenes)

RN 161960-61-8 CAPLUS

CN Poly[oxy-1,5-pentanedioxy(2,6-dimethoxy-1,4-phenylene)-1,2-ethenediyl[2,5-bis(trimethylsilyl)-1,4-phenylene]-1,2-ethenediyl(3,5-dimethoxy-1,4-phenylene)] (9CI) (CA INDEX NAME)



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L14 ANSWER 26 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:711785 CAPLUS Full-text  
 DOCUMENT NUMBER: 121:311785  
 TITLE: Photographic silver halide material and process.  
 INVENTOR(S): Krishnamurthy, Sundaram  
 PATENT ASSIGNEE(S): Eastman Kodak Co., USA  
 SOURCE: Eur. Pat. Appl., 19 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

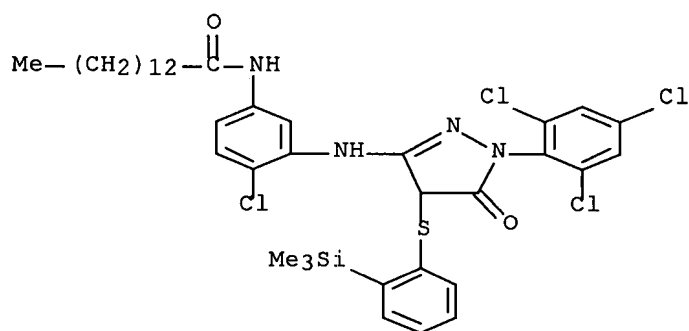
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 601643	A2	19940615	EP 1993-203374	19931202 <--
EP 601643	A3	19950412		
R: BE, DE, FR, GB, NL				
US 5318884	A	19940607	US 1992-986841	19921207 <--
JP 06208206	A	19940726	JP 1993-306332	19931207 <--
PRIORITY APPLN. INFO.:			US 1992-986841	A 19921207 <--
OTHER SOURCE(S):	MARPAT 121:311785			

AB Photog. Ag halide materials and processes employ at least 1 coupler having a coupling-off group which includes a carbocyclic or heterocyclic ring which bears a silyl substituent on at least 1 of its ring C atoms and is attached via another of its ring atoms either directly or through a linking group or atom to the coupling position of the coupler. The silyl substituent bears 3 groups which are independently aromatic groups, heterocyclic groups, aliphatic groups, carbocyclic groups or addnl. silyl groups bonded through a linking atom to the Si atom in said silyl substituent. The above magenta image coupler is capable of releasing photog. useful group during processing and provides images with resistance to light, heat and humidity.

IT 159257-51-9P 159257-52-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (silyl group releasing photog. magenta coupler)

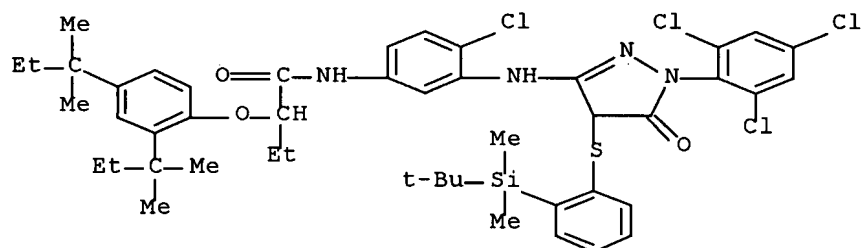
RN 159257-51-9 CAPLUS

CN Tetradecanamide, N-[4-chloro-3-[[4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-4-[[2-(trimethylsilyl)phenyl]thio]-1H-pyrazol-3-yl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 159257-52-0 CAPLUS

CN Butanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-chloro-3-[[4-[[2-[(1,1-dimethylethyl)dimethylsilyl]phenyl]thio]-4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]amino]phenyl]- (9CI) (CA INDEX NAME)



L14 ANSWER 27 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:258148 CAPLUS Full-text

DOCUMENT NUMBER: 120:258148

TITLE: Liquid crystals with end groups containing more than one silane group, their preparation, liquid crystal media containing them, and their use

INVENTOR(S): Haeberle, Norman; Kreuzer, Franz Heinrich; Krueger, Benno; Zahn, Ingo

PATENT ASSIGNEE(S): Consortium fuer Elektrochemische Industrie GmbH, Germany

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 545409	A1	19930609	EP 1992-120645	19921203 <--
EP 545409	B1	19960306		
R: CH, DE, FR, GB, LI, NL				
DE 4140352	A1	19930609	DE 1991-4140352	19911206 <--
JP 05286982	A	19931102	JP 1992-321758	19921201 <--
US 5399290	A	19950321	US 1992-984599	19921202 <--



CA 2084562 A1 19930607 CA 1992-2084562 19921204 <--  
 PRIORITY APPLN. INFO.: DE 1991-4140352 A 19911206 <--  
 OTHER SOURCE(S): MARPAT 120:258148

AB The title compds. are described by the general formula  $M-(CH_2)_n-(O)_m-[-D-B-]_q-Y$  (M = 2-5 Si atoms in a branched, straight-chain, or cyclic arrangement, joined to one another via bridging elements A and with the valence requirements of the Si atoms being satisfied by the presence of residues R; A = C1-8 alkylene residues or O with the restriction that there is  $\geq 1$  C1-8 alkylene residue for each M residue; R = independently selected at each occurrence and optionally substituted with F, Cl, or CN straight-chain C1-10 alkyl or C2-10 alkenyl groups, branched chain C3-10 alkyl or alkenyl groups, or optionally with C1-4 alkyl, C1-4 alkoxy, F, Cl, Br, CN, trifluoromethyl, or nitro group substituted C6-12 cycloalkyl, cycloalkenyl, alkylcycloalkyl, alkylcycloalkenyl, aryl, or aralkyl groups; n = a whole number in the range 3-12; m = 0 or 1; D = independently selected isocyclic or heterocyclic saturated or unsatd. 5- or 6-membered rings; B = independently selected bonding groups from -COO-, -OOC-, -CH<sub>2</sub>-CH<sub>2</sub>-, -CH:CH-, -C.tplbond.C-, -CH:N-, -N:CH-, -O-CH<sub>2</sub>-, -CH<sub>2</sub>-O-, and -N:N-; q = 1, 2, or 3; and Y = H, a straight or branched chain C1-10 alkyl or alkoxy group, a residue of type D for which the ring may include substituents selected from C1-4 alkyl, C1-4 alkoxy, F, Cl, Br, CN, trifluoromethyl, or nitro groups, or a cholesteryl residue). Methods for preparing the compds. include reacting a compound described by the formula MH (in which the H is bound to a Si) with a compound described by the formula  $H_2:CH-(CH_2)_{n-2}-(O)_m-[-D-B-]_q-Y$  in the presence of a Pt Group metal or Pt Group metal compound or reacting a compound described by the formula MHal (Hal = Cl, Br, or I) with a compound described by the formula  $T-(CH_2)_n-(O)_m-[-D-B-]_q-Y$  (T = an alkali metal atom or MgHal). Alternately, the compds. may be prepared by reacting a compound described by the formula  $M-(CH_2)_n-(O)_m-[-D-B-]_r-1-D-G$  with a compound described by the formula  $Q-[-D-B-]_s-Y$  (r, s = 0, 1, 2, or 3; r + s = q; and G, Q = -OH, -OLi, -ONa, -OK, -O(C1-4 alkyl), -COOH, -COBr, -COCl, -NH<sub>2</sub>, -O-tos, or -MgHal) to form a binding group B with the loss of water, a C1-4 alkanol, HHal, MgHal<sub>2</sub>, LiHal, NaHal, KHal, Li-O-tos, Na-O-tos, or K-O-tos. Liquid crystalline compns. containing the compds. are claimed, as is the use of the compds. in optoelectronics, information storage, signal processing, or electrog. processes.

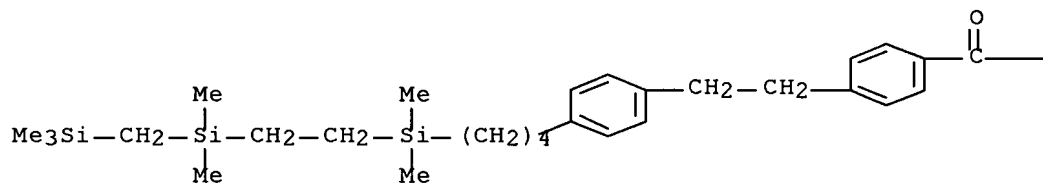
IT 154454-82-7P 154454-93-0P 154454-94-1P  
 154454-95-2P 154455-04-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and use of, as liquid crystal media)

RN 154454-82-7 CAPLUS

CN Benzoic acid, 4-[2-[4-[4-[2-[dimethyl[(trimethylsilyl)methyl]silyl]ethyl]dimethylsilyl]butyl]phenyl]ethyl]-, 4-(octyloxy)phenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



\*Oc1ccc(OCCCCCCCC)c(c1)C

CN Benzoic acid, 4-[2-[4-[4-[dimethyl[(trimethylsilyl)methyl]silyl]butyl]phenyl]ethyl]-, 4-(octyloxy)phenyl ester (9CI) (CA INDEX NAME)

CC(C)(C)Si(C)(C)CC1=CC=C(C=C1)CC2=CC=C(C=C2)C(=O)Oc3ccc(O)cc3
$$-(\text{CH}_2)_7-\text{Me}$$

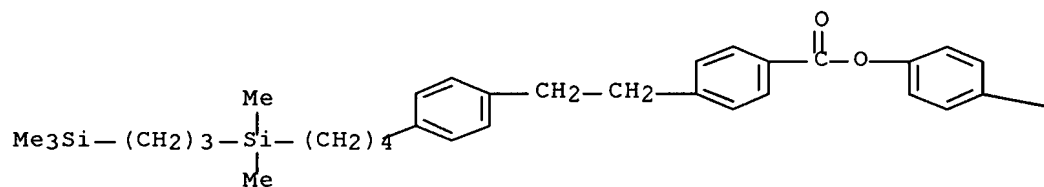
CN Benzoic acid, 4-[2-[4-[4-[[dimethylphenylsilyl)methyl]dimethylsilyl]butyl]phenyl]ethyl-, 4-(octyloxy)phenyl ester (9CI) (CA INDEX NAME)

CC(C)(c1ccc(cc1)CCc2ccc(cc2)C(=O)Oc3ccc(O)cc3)CC(C)(C)c4ccccc4
$$-(\text{CH}_2)_7-\text{Me}$$

RN 154454-95-2 CAPLUS

CN Benzoic acid, 4-[2-[4-[4-[dimethyl[3-(trimethylsilyl)propyl]silyl]butyl]phenyl]ethyl]-, 4-(octyloxy)phenyl ester (9CI) (CA INDEX NAME)

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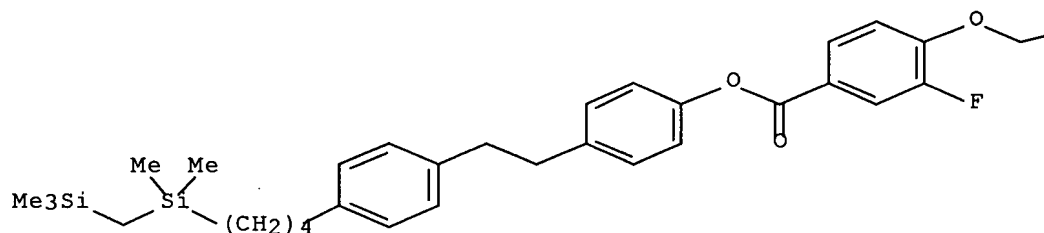


RN 154455-04-6 CAPLUS

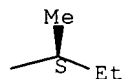
CN Benzoic acid, 3-fluoro-4-(2-methylbutoxy)-, 4-[2-[4-[4-[dimethyl[(trimethylsilyl)methyl]silyl]butyl]phenyl]ethyl]phenyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L14 ANSWER 28 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:517958 CAPLUS Full-text

DOCUMENT NUMBER: 119:117958

TITLE: Synthesis and characterization of new aromatic sulfone ether polyamides containing pendant pentadecyl groups

AUTHOR(S): Jadhav, Arun S.; Vernekar, Subhash P.; Maldar, Noormahmad N.

CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Pune, 411008, India

SOURCE: Polymer International (1993), 32(1), 5-11

CODEN: PLYIEI; ISSN: 0959-8103

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of new polyamides and copolyamides containing aromatic sulfone ether linkages was synthesized from 4,4'-[sulfonylbis(4,1-phenyleneoxy-3-pentadecyl)]bisphenylamine (I) and isophthaloyl chloride, terephthaloyl chloride, bis(4-chlorocarbonylphenyl)dimethylsilane, and bis(4-chlorocarbonylphenyl)diphenylsilane by a low-temperature interfacial polymerization technique. I was prepared from 4,4'-dichlorodiphenyl sulfone and 4-amino-3-pentadecylphenol derived from cashew nutshell liquid and was characterized by spectral methods and elemental anal., whereas the polyamides were characterized by solution viscosity, IR spectroscopy, TGA, x-ray diffraction, and solubility. These polyamides showed enhanced solubility in organic solvents and no weight loss at  $<405^\circ$  in N. The effect of pendant pentadecyl substituents and Si in the main chain of polyamides on properties of these polymers was studied by comparing their properties with those of unsubstituted polyamides prepared from 4,4'-[sulfonylbis(4,1-phenyleneoxy)]bisphenylamine.

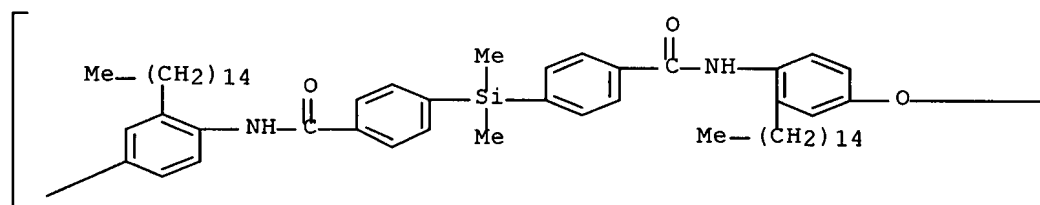
IT 149234-27-5P 149265-76-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and characterization of)

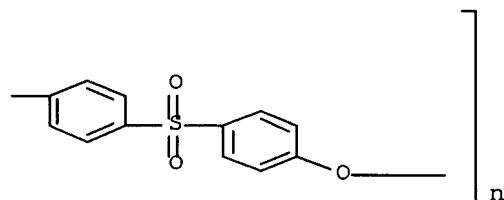
RN 149234-27-5 CAPLUS

CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy(3-pentadecyl-1,4-phenylene)iminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino(2-pentadecyl-1,4-phenylene)] (9CI) (CA INDEX NAME)

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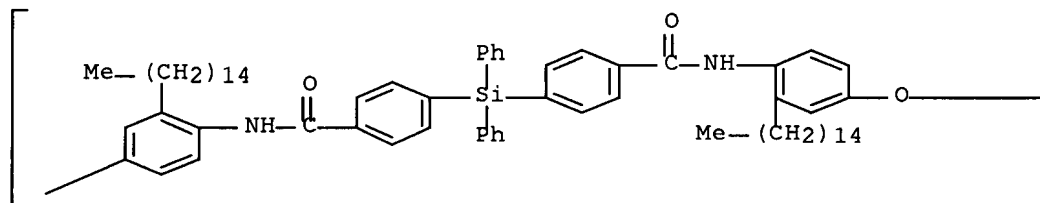


PAGE 1-B

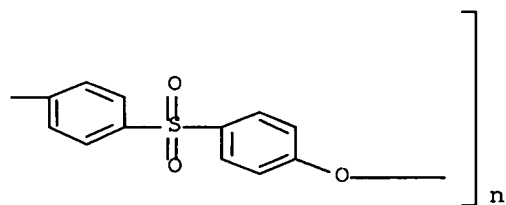


RN 149265-76-9 CAPLUS  
 CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy(3-pentadecyl-1,4-phenylene)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino(2-pentadecyl-1,4-phenylene)] (9CI) (CA INDEX NAME)

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L14 ANSWER 29 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:169825 CAPLUS Full-text  
 DOCUMENT NUMBER: 118:169825  
 TITLE: Aromatic polyamides bearing pendant silyl groups  
 INVENTOR(S): Choi, Kil Yeong; Lee, Mi Hie  
 PATENT ASSIGNEE(S): Korea Research Institute of Chemical Technology, S. Korea  
 SOURCE: Ger. Offen., 17 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4208005	A1	19920917	DE 1992-4208005	19920313 <--
DE 4208005	C2	19981119		
US 5243010	A	19930907	US 1992-852075	19920313 <--
JP 05156005	A	19930622	JP 1992-89306	19920316 <--
JP 06055813	B	19940727		
PRIORITY APPLN. INFO.:		KR 1991-4062	A	19910314 <--

AB Polyamides with good adhesion to glass fibers, heat resistance, and solubility are prepared from aromatic dicarboxylic acids bearing silyl groups and

aromatic diamines. Stirring 2-(trimethylsilyl)terephthalic acid (prepared in 79.8% yield by oxidation of the corresponding xylene) 50, p-phenylenediamine 50, and (PhO)<sub>3</sub>P 100 mmol with 5 g LiCl in 25 mL pyridine and 100 mL N-methylpyrrolidone at 100-110° for 3 h gave 98.1% polyamide with intrinsic viscosity 0.69 dL/g, decomposition temperature 500°, and residual weight at 700° 60%.

IT 143020-14-8P 143020-33-1P 143020-36-4P

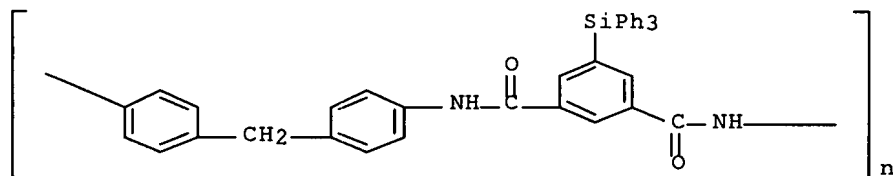
143020-37-5P 143020-40-0P 143049-75-6P

144868-96-2P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of heat-resistant)

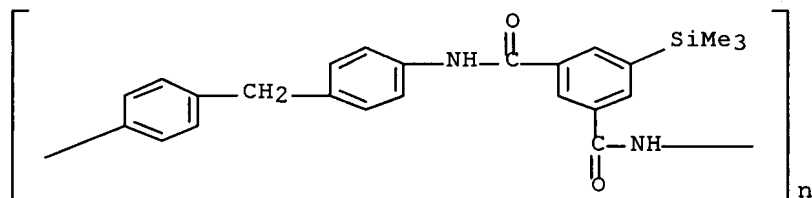
RN 143020-14-8 CAPLUS

CN Poly[iminocarbonyl[5-(triphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



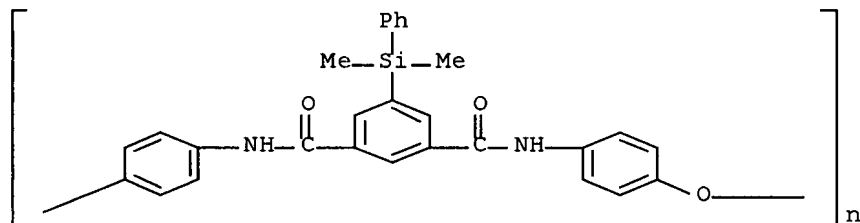
RN 143020-33-1 CAPLUS

CN Poly[iminocarbonyl[5-(trimethylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



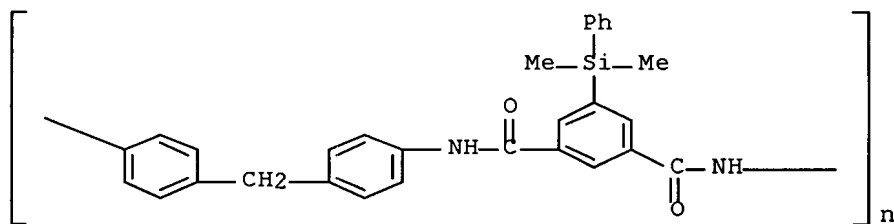
RN 143020-36-4 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[5-(dimethylphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)



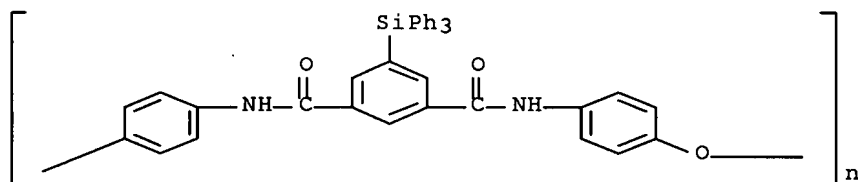
RN 143020-37-5 CAPLUS

CN Poly[iminocarbonyl[5-(dimethylphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



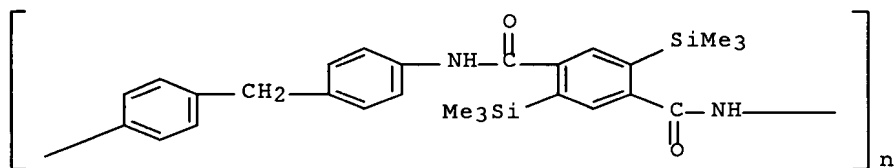
RN 143020-40-0 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[5-(triphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)



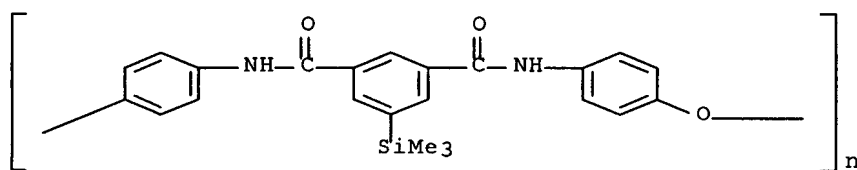
RN 143049-75-6 CAPLUS

CN Poly[iminocarbonyl[2,5-bis(trimethylsilyl)-1,4-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 144868-96-2 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[5-(trimethylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)



L14 ANSWER 30 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:651883 CAPLUS Full-text

DOCUMENT NUMBER: 117:251883

TITLE: Synthesis and characterization of aromatic polymers containing pendant silyl groups. II. Aromatic polyamides

AUTHOR(S): Choi, Kil Yeong; Yi, Mi Hie; Choi, Sam Kwon

CORPORATE SOURCE: High-Perform. Polym. Res. Lab., Korea Res. Inst. Chem. Technol., Daejeon, 305-606, S. Korea

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1992), 30(8), 1583-8

CODEN: JPACEC; ISSN: 0887-624X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In order to improve the solubility of aromatic polyamides without significant loss of thermal stability, aromatic polyamides containing pendant silyl groups were prepared by direct polycondensation of silylated aromatic diacids such as 2-trimethylsilylterephthalic acid, 2,5-bis(trimethylsilyl)terephthalic acid, 5-trimethylsilylisophthalic acid, 5-dimethylphenylsilylisophthalic acid, and 5-triphenylsilylisophthalic acid with various aromatic diamines. The resulting polyamides had inherent viscosities of 0.18-1.10 dL/g and showed improved solubilities toward aprotic polar solvents such as NMP, DMF, DMSO, etc. The prepared aromatic polyamides exhibited fairly good thermal stabilities, which were almost comparable to those of the corresponding nonsubstituted aromatic polyamides. Thermogravimetric anal. revealed 10% weight losses at 358-500°, and the residual wts. at 700° were 46-67% under N atmospheric

IT 143020-14-8P 143020-33-1P 143020-36-4P

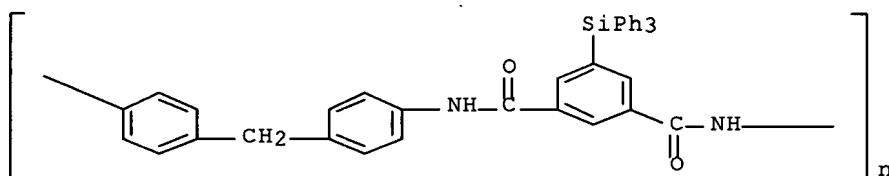
143020-37-5P 143020-40-0P 144868-96-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and solubility and thermal stability and glass temperature of)

RN 143020-14-8 CAPLUS

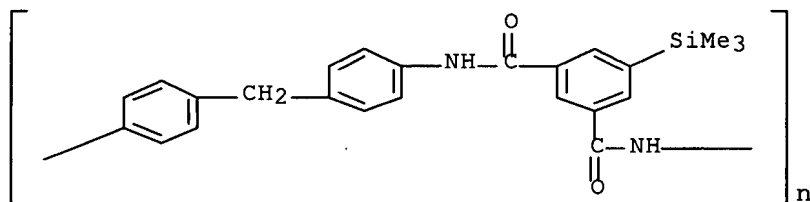
CN Poly[iminocarbonyl[5-(triphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 143020-33-1 CAPLUS

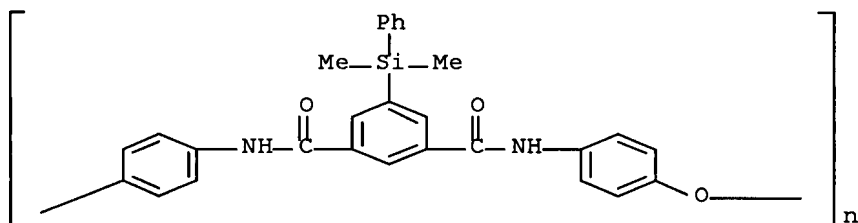
CN Poly[iminocarbonyl[5-(trimethylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)





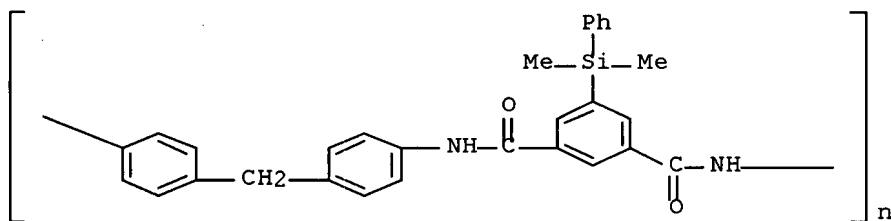
RN 143020-36-4 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[5-(dimethylphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)



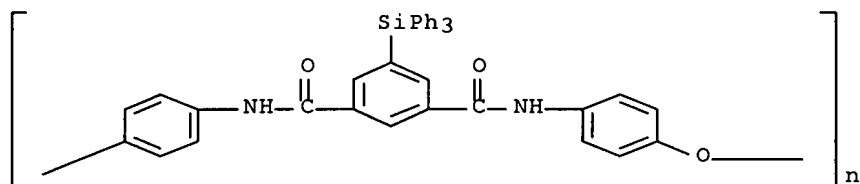
RN 143020-37-5 CAPLUS

CN Poly[iminocarbonyl[5-(dimethylphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



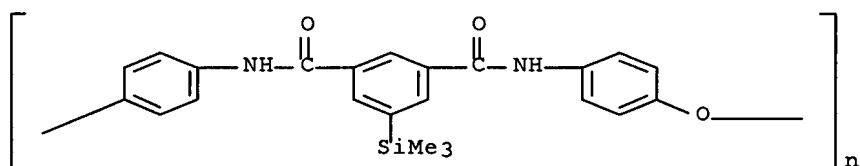
RN 143020-40-0 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[5-(triphenylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 144868-96-2 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[5-(trimethylsilyl)-1,3-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

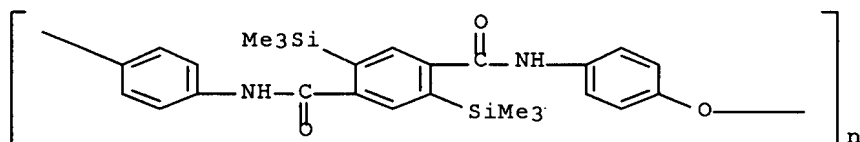


IT 143049-74-5P 143049-75-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and solubility and thermal stability of)

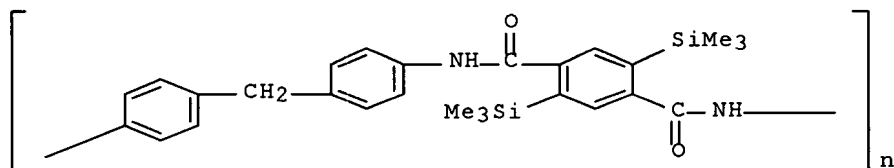
RN 143049-74-5 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl[2,5-bis(trimethylsilyl)-1,4-phenylene]carbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 143049-75-6 CAPLUS

CN Poly[iminocarbonyl[2,5-bis(trimethylsilyl)-1,4-phenylene]carbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)



L14 ANSWER 31 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:514140 CAPLUS Full-text

DOCUMENT NUMBER: 117:114140

TITLE: Semipermeable membranes based on certain sulfonated substituted polysulfone polymers for gas separation.

INVENTOR(S): Bikson, Benjamin; Nelson, Joyce K.; Goetz, Gertrud; Ozcayir, Yurdagul

PATENT ASSIGNEE(S): Union Carbide Industrial Gases Technology Corp., USA

SOURCE: U.S., 11 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5071448	A	19911210	US 1990-622650	19901205 <--
CA 2056930	A1	19920606	CA 1991-2056930	19911204 <--
EP 489431	A2	19920610	EP 1991-120864	19911204 <--
EP 489431	A3	19921202		
R: BE, DE, ES, FR, GB, IT, SE				
JP 04277024	A	19921002	JP 1991-347675	19911204 <--
BR 9105264	A	19920818	BR 1991-5264	19911205 <--
PRIORITY APPLN. INFO.:			US 1990-622650	A 19901205 <--

AB The membranes are suitable for selective permeation of >1 gas from a mixture with enhanced permeability. Suitable membranes include sulfonated di-trimethylated hexafluorobisphenol A polysulfone, sulfonated dibrominated hexafluorobisphenol A polysulfone, sulfonated methylated hexafluorobisphenol A polysulfone, and sulfonated brominated bisphenol A polysulfones.

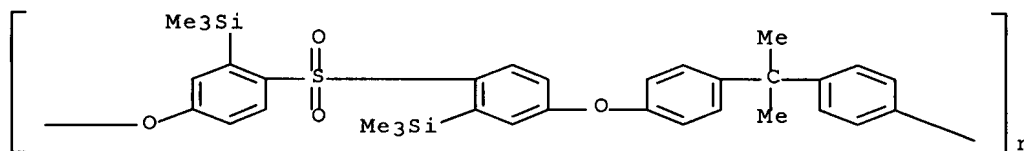
IT 143118-57-4 143118-61-0

RL: USES (Uses)

(membranes, permselective, with enhanced gas permeability)

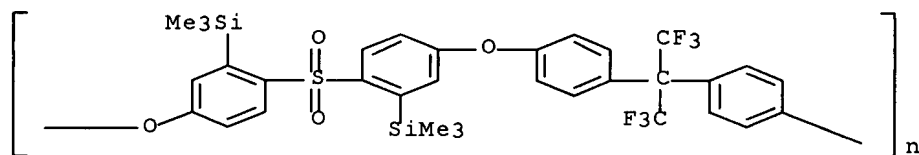
RN 143118-57-4 CAPLUS

CN Poly[oxy[3-(trimethylsilyl)-1,4-phenylene]sulfonyl[2-(trimethylsilyl)-1,4-phenylene]oxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 143118-61-0 CAPLUS

CN Poly[oxy[3-(trimethylsilyl)-1,4-phenylene]sulfonyl[2-(trimethylsilyl)-1,4-phenylene]oxy-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenylene] (9CI) (CA INDEX NAME)



L14 ANSWER 32 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:408153 CAPLUS Full-text

DOCUMENT NUMBER: 117:8153

TITLE: Generation and reaction of a transition metal stabilized but-2-yne-1,4-dicarbenium ion: the first example of the double Nicholas reaction

AUTHOR(S): Takano, Seiichi; Sugihara, Takumichi; Ogasawara, Kunio

CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SOURCE: Synlett (1992), (1), 70-2  
CODEN: SYNLES; ISSN: 0936-5214

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 117:8153

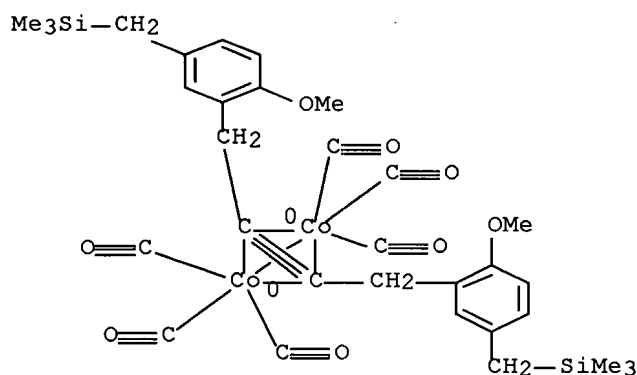
AB Reaction of the dicobalt hexacarbonyl complex of 1,4-dibenzoyloxybut-2-yne with nucleophiles occurs facilely at the 1,4-centers in one step in the presence of Et<sub>2</sub>O·BF<sub>3</sub> complex to give 1,4-difunctionalized but-2-yne complexes in excellent yield via a formal generation of transition metal stabilized but-2-yne-1,4-dicarbenium ion intermediate. The reaction is taken as the first example of the double Nicholas reaction.

IT 141886-43-3P 141886-44-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

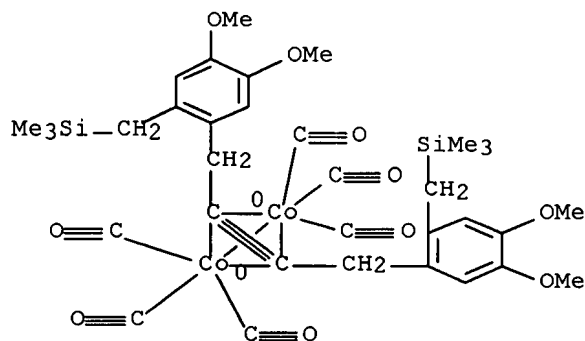
RN 141886-43-3 CAPLUS

CN Cobalt, [ $\mu$ -[[[(2,3- $\eta$ :2,3- $\eta$ )-2-butyne-1,4-diyl]bis[(4-methoxy-3,1-phenylene)methylene]]bis[trimethylsilane]]]hexacarbonyldi-, (Co-Co) (9CI) (CA INDEX NAME)



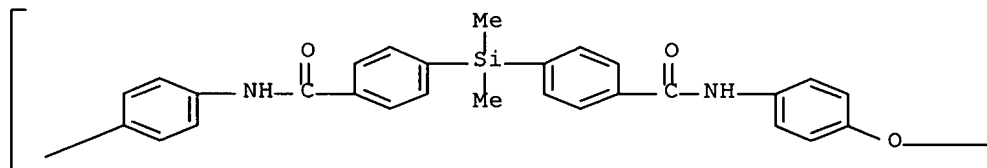
RN 141886-44-4 CAPLUS

CN Cobalt, [ $\mu$ -[[[(2,3- $\eta$ :2,3- $\eta$ )-2-butyne-1,4-diyl]bis[(4,5-dimethoxy-2,1-phenylene)methylene]]bis[trimethylsilane]]]hexacarbonyldi-, (Co-Co) (9CI) (CA INDEX NAME)



L14 ANSWER 33 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:680914 CAPLUS Full-text  
 DOCUMENT NUMBER: 115:280914  
 TITLE: Application of NMR techniques for the characterization of silicon-containing phenylated soluble aramids  
 AUTHOR(S): Jahnke, Tamera S.; Walker, David J.; Mohite, Sanjiv S.  
 CORPORATE SOURCE: Dep. Chem., Southwest Missouri State Univ., Springfield, MO, 65804, USA  
 SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1991), 32(3), 310-11  
 CODEN: ACPPAY; ISSN: 0032-3934  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB 13C-NMR peak assignments were made for copolymers of bis(4-chlorocarbonylphenyl)dimethylsilane (I) and bis(3-chlorocarbonylphenyl)dimethylsilane with 2,5-bis(4-aminophenyl)-3,4-diphenylthiophene (II) and bis(4-aminophenyl)ether (III) and for the I-II-III copolymer.  
 IT 92489-03-7 117223-67-3  
 RL: PRP (Properties)  
 (NMR peak assignments for, carbon-13)  
 RN 92489-03-7 CAPLUS  
 CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A

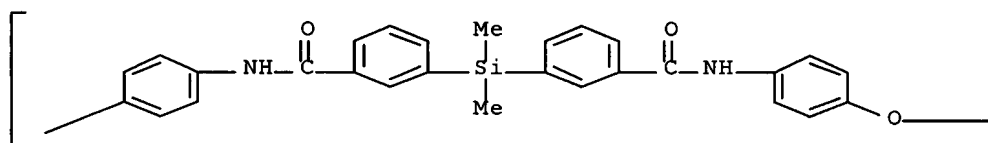


PAGE 1-B

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RN 117223-67-3 CAPLUS  
 CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,3-phenylene(dimethylsilylene)-1,3-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A

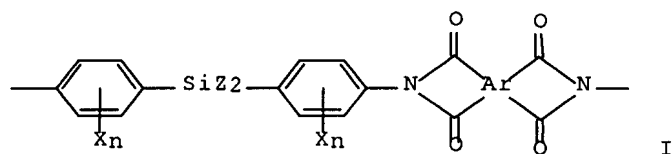


PAGE 1-B

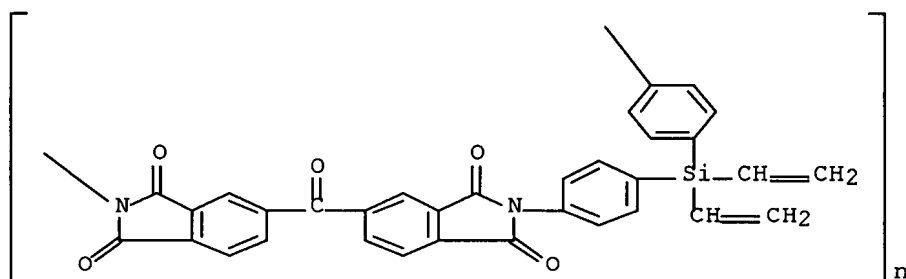
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L14 ANSWER 34 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:418629 CAPLUS Full-text  
 DOCUMENT NUMBER: 115:18629  
 TITLE: Photosensitive polyimides with improved adhesion  
 INVENTOR(S): Furuya, Hiroyuki; Nagano, Kosaku  
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 02305820	A	19901219	JP 1989-125317	19890518 <--
PRIORITY APPLN. INFO.:			JP 1989-125317	19890518 <--
GI				



- AB The title polyimides containing repeating unit I (Ar = organic group; Z = photosensitive substituent; X = H, Me, Et, OMe, Cl, Br, F, cyano, NO<sub>2</sub>, CF<sub>3</sub>, CF<sub>2</sub>CF<sub>3</sub>, OCF<sub>3</sub>; n = 0-4) show improved adhesion and are useful as photoresists and elec. insulators in fabrication of printed circuit boards. Thus, reaction of p-BrC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub> with (CH<sub>2</sub>:CH)<sub>2</sub>SiCl<sub>2</sub> in Et<sub>2</sub>O in presence of Li gave dinitro compound, which was reduced by Sn chloride/HCl in AcOH at 100° for 4 h to give (CH<sub>2</sub>:CH)<sub>2</sub>Si(C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-4)<sub>2</sub> (II). Then, 2.66 g II and 2.18 g pyromellitic dianhydride were polymerized in DMF to give a polyamic acid solution, which was applied on an Al sheet, dried, pattern-wise exposed by UV, developed, and heated at 300° for 1.5 h to form a polyimide pattern with thermal decomposition temperature 252°.
- IT 134247-31-7P, Benzophenonetetracarboxylic dianhydride-bis(4-aminophenyl)divinylsilane copolymer, sru  
RL: PREP (Preparation)  
(preparation of, photosensitive, as resists and elec. insulators in fabrication of printed circuit boards)
- RN 134247-31-7 CAPLUS
- CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(diethenylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



L14 ANSWER 35 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:123185 CAPLUS Full-text  
 DOCUMENT NUMBER: 114:123185  
 TITLE: Synthesis and characterization of silicon-containing polyamides from aromatic sulfone ether diamines and aromatic organosilicon diacid chlorides  
 AUTHOR(S): Jadhav, A. S.; Maldar, N. N.; Shinde, B. M.; Vernekar, S. P.  
 CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Pune, 411 008, India  
 SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1991), 29(2), 147-53  
 CODEN: JPACEC; ISSN: 0887-624X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Thermally stable polyamides and copolyamides containing silicon and sulfone ether linkages, soluble in common aprotic solvents and having inherent viscosities 0.3-0.6 dL/g, were synthesized by solution condensation of bis[4-(chlorocarbonyl)phenyl]dimethylsilane or bis[4-(chlorocarbonyl)phenyl]diphenylsilane with 4,4'-[sulfonylbis(4,1-phenyleneoxy)]bisbenzenamine, 3,3'-[sulfonylbis(4,1-phenyleneoxy)]bisbenzenamine, and(or) bis(4-aminophenyl)ether. These polymers were characterized by IR spectra, solution viscosity, thermooxidative degradation, differential scanning calorimetry, and x-ray diffraction.

IT 92488-97-6P 92489-03-7P 132671-73-9P

132671-74-0P 132671-75-1P 132671-76-2P

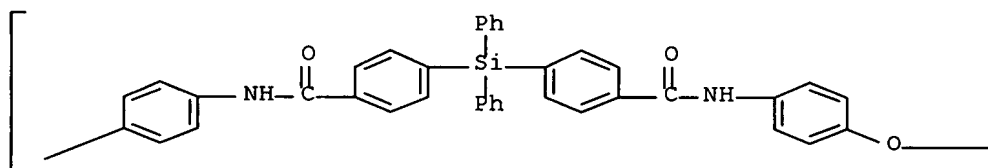
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and solubility and thermal stability of)

RN 92488-97-6 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



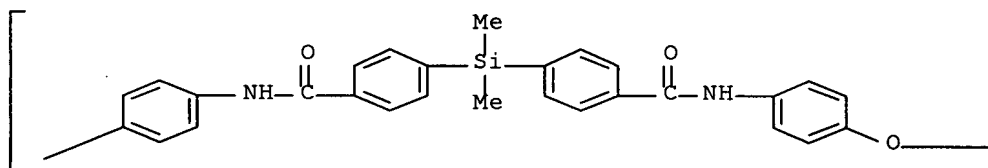
PAGE 1-B



RN 92489-03-7 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



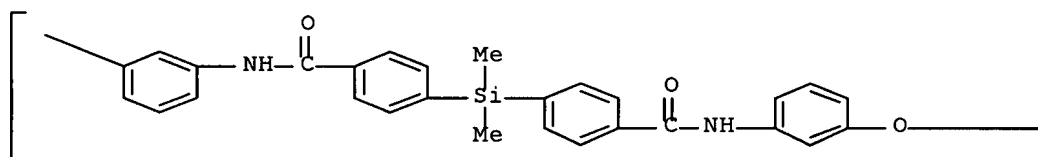


PAGE 1-B

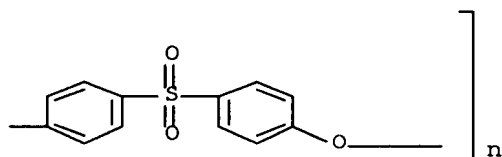


RN 132671-73-9 CAPLUS  
 CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,3-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,3-phenylene]  
 (9CI) (CA INDEX NAME)

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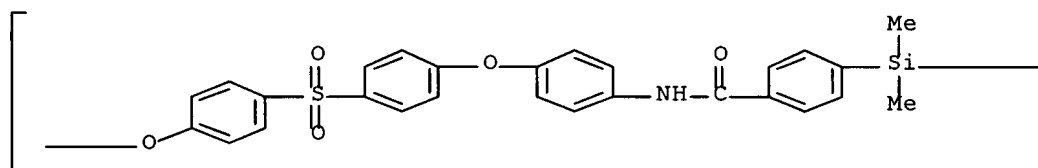


PAGE 1-B

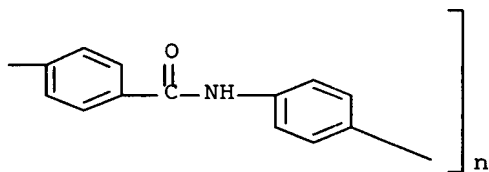


RN 132671-74-0 CAPLUS  
 CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
 (9CI) (CA INDEX NAME)

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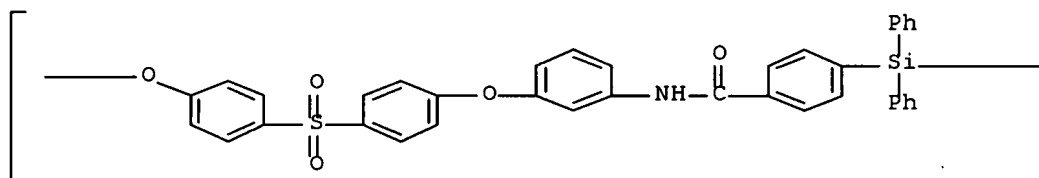
PAGE 1-B



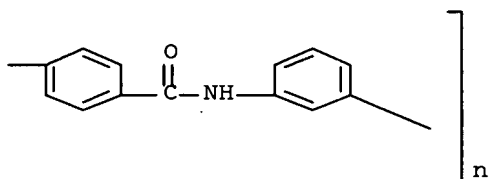
RN 132671-75-1 CAPLUS

CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,3-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,3-phenylene]  
(9CI) (CA INDEX NAME)

PAGE 1-A



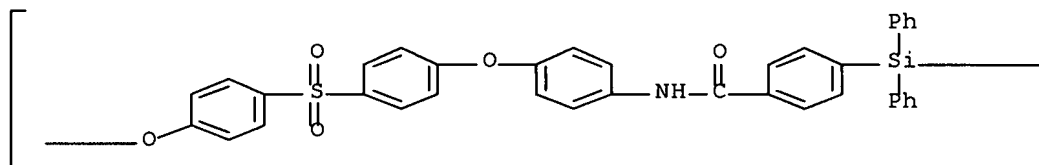
PAGE 1-B



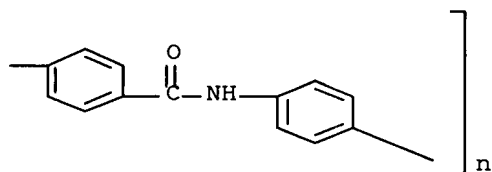
RN 132671-76-2 CAPLUS

CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene]  
(9CI) (CA INDEX NAME)

PAGE 1-A

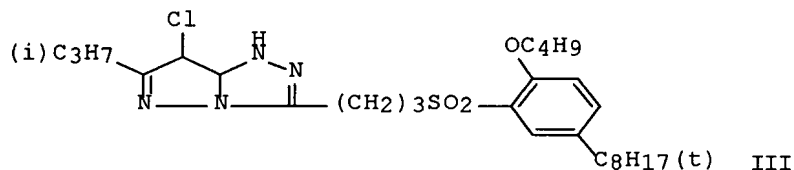
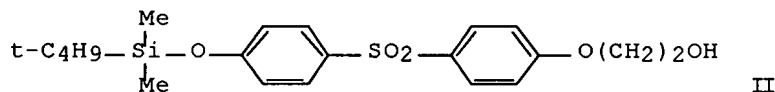
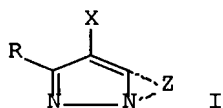


PAGE 1-B



L14 ANSWER 36 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:45536 CAPLUS Full-text  
 DOCUMENT NUMBER: 112:45536  
 TITLE: Silver halide photographic material with improved spectral characteristics of dye  
 INVENTOR(S): Hirabayashi, Shigeto  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01105249	A	19890421	JP 1987-193050	19870801 <--
PRIORITY APPLN. INFO.: GI			JP 1987-188475	A1 19870727 <--



AB In the title photog. material with  $\geq 1$  Ag halide emulsion layer,  $\geq 1$  magenta coupler I [Z = nonmetallic group necessary to form a N-containing heterocyclic ring; X = H, group to be released upon reaction with an oxidized color

developer; R = H, substituent] and  $\geq 1$  organo silane derivative (non-hydrolyzable organo silane derivative in an alkali medium) are contained. II as silane derivative and III as magenta coupler were contained in the photog. material.

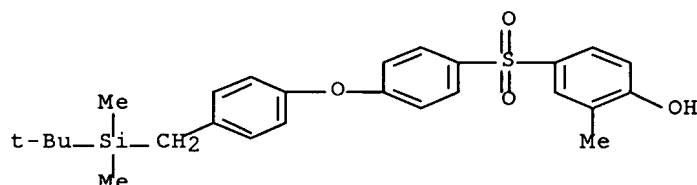
IT 121607-09-8

RL: USES (Uses)

(emulsion layer containing magenta coupler and)

RN 121607-09-8 CAPLUS

CN Phenol, 4-[[4-[4-[[[(1,1-dimethylethyl)dimethylsilyl]methyl]phenoxy]phenyl]sulfonyl]-2-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 37 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:27984 CAPLUS Full-text

DOCUMENT NUMBER: 112:27984

TITLE: Photographic material using improved cyan couplers

INVENTOR(S): Tanji, Masaki; Nishijima, Toyoki

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01046751	A	19890221	JP 1987-203279	19870814 <--
PRIORITY APPLN. INFO.:			JP 1987-203279	19870814 <--

AB The title photog. material contains  $\geq 1$  Ag halide emulsion layer containing a 2,5-diacylaminophenol-type cyan coupler and an organosilane which is resistant to hydrolysis in an alkaline medium. The cyan dye images produced show good color rendition and good preservability.

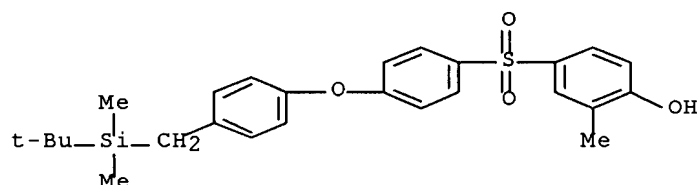
IT 121607-09-8

RL: DEV (Device component use); USES (Uses)

(color photog. films containing)

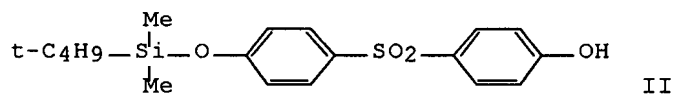
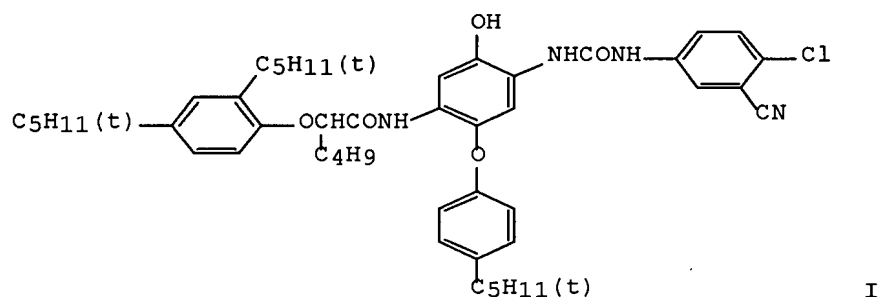
RN 121607-09-8 CAPLUS

CN Phenol, 4-[[4-[4-[[[(1,1-dimethylethyl)dimethylsilyl]methyl]phenoxy]phenyl]sulfonyl]-2-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 38 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:14192 CAPLUS Full-text  
 DOCUMENT NUMBER: 112:14192  
 TITLE: Silver halide color photographic material containing  
 2-ureidophenol cyan coupler and organosilane  
 derivative  
 INVENTOR(S): Kimura, Toshihiko; Iwamuro, Masao; Mizukura, Noboru;  
 Sugita, Shuichi; Nakagawa, Satoshi  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01037550	A	19890208	JP 1987-193049	19870801 <--
PRIORITY APPLN. INFO.: GI			JP 1987-193049	19870801 <--

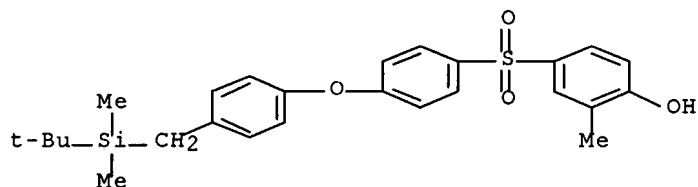


AB In the title photog. material with ≥1 Ag halide emulsion layer, ≥1 of emulsion layer contains a 2-ureidophenol cyan coupler and an organosilane derivative. The photog. material shows improved coloration, and developability. An emulsion layer containing I and II was used in the photog. material.

IT 121607-09-8  
 RL: USES (Uses)  
 (emulsion layer containing 2-ureidophenol cyan coupler and)

RN 121607-09-8 CAPLUS

CN Phenol, 4-[[4-[4-[[[1,1-dimethylethyl]dimethylsilyl]methyl]phenoxy]phenyl]sulfonyl]-2-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 39 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:644128 CAPLUS Full-text  
 DOCUMENT NUMBER: 111:244128  
 TITLE: Color photographic material with good color rendition and image stability  
 INVENTOR(S): Nishijima, Toyoki  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

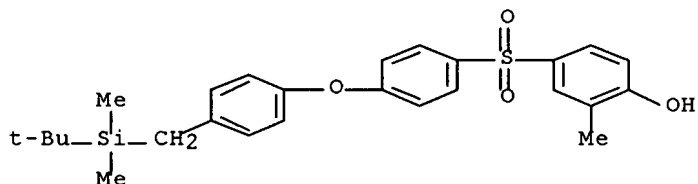
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01044941	A	19890217	JP 1987-202932	19870813 <--
PRIORITY APPLN. INFO.:			JP 1987-202932	19870813 <--

AB In the title photog. material, ≥1 Ag halide emulsion layer contains a yellow coupler, R1COCHZ1CONHR2 [R1 = alkyl; R2 = aryl; Z1 = a group releasable on coupling and link to C via a N], an organosilane, and a high-boiling organic solvent with an dielec. constant ≤60.

IT 121607-09-8  
 RL: USES (Uses)  
 (color rendition promoter, for color photog. films)

RN 121607-09-8 CAPLUS

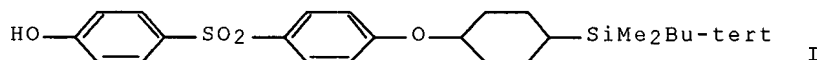
CN Phenol, 4-[[4-[4-[(1,1-dimethylethyl)dimethylsilyl]methyl]phenoxy]phenyl]sulfonyl]-2-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 40 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:523709 CAPLUS Full-text  
 DOCUMENT NUMBER: 111:123709  
 TITLE: Silver halide color photographic material with improved color developability due to incorporated organosilane compound  
 INVENTOR(S): Sugita, Shuichi; Mizukura, Noboru; Nakagawa, Satoshi

PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01032258	A	19890202	JP 1987-189718	19870728 <--
PRIORITY APPLN. INFO.: GI			JP 1987-189718	19870728 <--



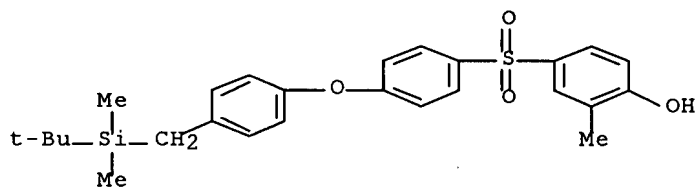
AB The claimed photog. material has ≥1 hydrophilic colloid layer containing a chromogenic coupler together with an organosilane compound which has a component group selected from a cycloalkylene-substituted aryloxy group, arylenealkylene, alkylenearylene, Si-linked polyalkyleneoxy, aryloxy-substituted organosilylalkoxy, organosilylalkoxy. The material has improved color developability, and high photog. speed. Thus, a monocolor film containing the magenta coupler 1-(2',4',6'-trichlorophenyl)-3- [3'-(2''',5'''-di-tert-amylphenoxyacetamido)benzoylamino]-5-pyrazolone and the organosilane compound I in a Ag(Br,I) emulsion layer provided a high color d. when processed with a typical color neg. processing formula.

IT 121607-09-8

RL: USES (Uses)  
 (photog. development accelerator)

RN 121607-09-8 CAPLUS

CN Phenol, 4-[[4-[4-[(1,1-dimethylethyl)dimethylsilyl]methyl]phenoxy]phenyl]sulfonyl]-2-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 41 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:590971 CAPLUS Full-text

DOCUMENT NUMBER: 109:190971

TITLE: Synthesis and characterization of silicon-containing phenylated soluble aramids

AUTHOR(S): Mohite, S. S.; Maldar, N. N.; Marvel, C. S.

CORPORATE SOURCE: Carl S. Marvel Lab. Chem., Univ., Tucson, AZ, 85721, USA

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry  
(1988), 26(10), 2777-84  
CODEN: JPACEC; ISSN: 0887-624X

DOCUMENT TYPE: Journal

LANGUAGE: English

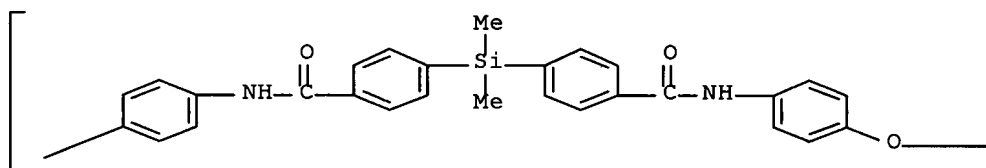
AB High-mol.-weight (inherent viscosities, 1.21-0.50 dL/g) aramids having Si and pendant Ph groups were synthesized by low-temperature interfacial polycondensation involving the reaction of bis(4-chlorocarbonylphenyl)dimethylsilane or bis(3-chlorocarbonylphenyl)dimethylsilane with 2,5-bis(4-aminophenyl)-3,4-diphenylthiophene or bis(4-aminophenyl) ether. Copolyamides were obtained by using different proportions of these diamines. All the polymers were completely soluble in organic solvents such as AcNMe<sub>2</sub>, N-methyl-2-pyrrolidone, and DMF. Thermal properties were evaluated by thermogravimetry, which showed no weight loss below 325° in both air and N atms.

IT 92489-03-7P 117223-67-3P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and properties of)

RN 92489-03-7 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



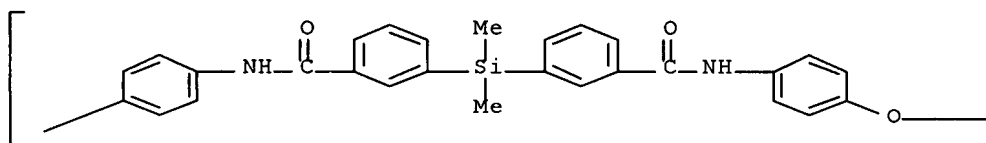
PAGE 1-B



RN 117223-67-3 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,3-phenylene(dimethylsilylene)-1,3-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A

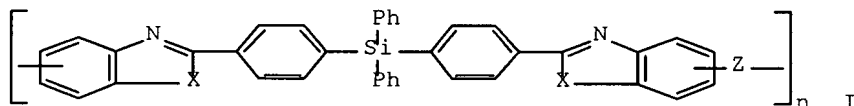




PAGE 1-B

$$\left[ \begin{array}{c} \text{---} \\ \text{---} \\ \text{---} \end{array} \right]_n$$

L14 ANSWER 42 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:438330 CAPLUS Full-text  
 DOCUMENT NUMBER: 109:38330  
 TITLE: Synthesis and study of polybenzazoles containing  
 diphenylsilyl groups  
 AUTHOR(S): Korshak, V. V.; Khananashvili, L. M.; Rusanov, A. L.;  
 Butskhrikidze, B. A.; Kakauridze, R. G.; Kipiani, L.  
 G.  
 CORPORATE SOURCE: Inst. Elementoorg. Soedin. im. Nesmeyanova, Moscow,  
 USSR  
 SOURCE: Vysokomolekulyarnye Soedineniya, Seriya B: Kratkie  
 Soobshcheniya (1988), 30(4), 315-17  
 CODEN: VYSBAI; ISSN: 0507-5483  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI



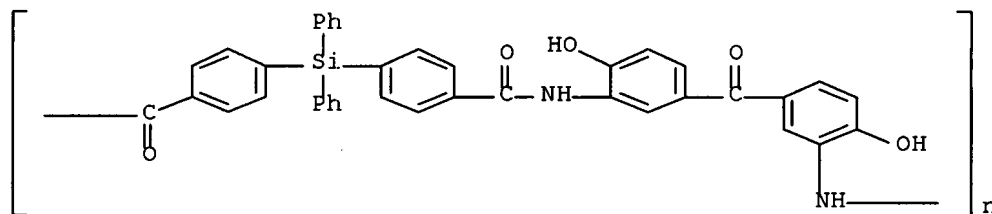
AB The title polymers (I; X = O, NPh; Z = CO, CH<sub>2</sub>) were prepared by polycondensation of bis[p-(chlorocarbonyl)phenyl]diphenylsilane with 3,3'-diamino-4,4'-dihydroxydiphenylmethane, 3,3'-diamino-4,4'-dihydroxybenzophenone, 4,4'-bis(phenylamino)-3,3'-diaminobenzophenone, or 4,4'-bis(phenylamino)-3,3'-diaminodiphenylmethane in the presence of HCl with subsequent cyclodehydration of the functional group-containing polyamide prepolymer. The presence of Ph<sub>2</sub>Si groups led to improved solubility I were soluble in organic solvents such as DMF, methylpyrrolidone, and tetrachloroethene-PhOH mixts. The Ph<sub>2</sub>Si groups were comparable to ether linkages with respect to their influence on the softening temperature and were intermediate between ether and CO linkages with respect to their influence on the degradation temperature

IT 115137-09-2P 115137-10-5P 115137-11-6P  
 115137-12-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and properties and ring closure of)

RN 115137-09-2 CAPLUS

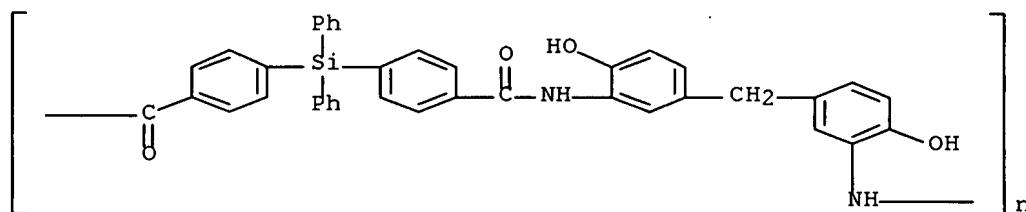
CN Poly[imino(6-hydroxy-1,3-phenylene)carbonyl(4-hydroxy-1,3-

phenylene)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



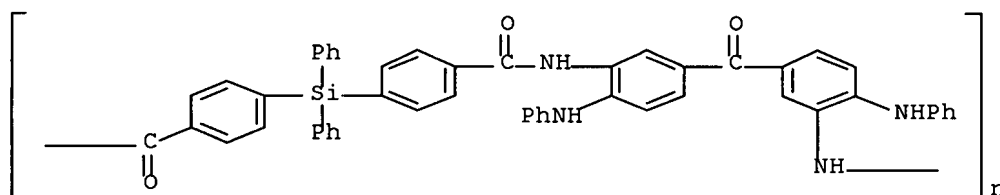
RN 115137-10-5 CAPLUS

CN Poly[imino(6-hydroxy-1,3-phenylene)methylene(4-hydroxy-1,3-phenylene)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



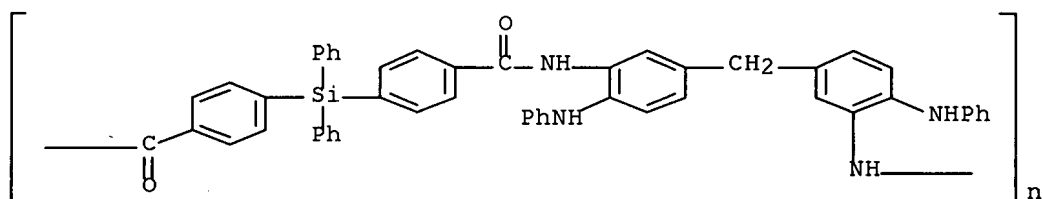
RN 115137-11-6 CAPLUS

CN Poly[imino[6-(phenylamino)-1,3-phenylene]carbonyl[4-(phenylamino)-1,3-phenylene]iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



RN 115137-12-7 CAPLUS

CN Poly[imino[6-(phenylamino)-1,3-phenylene]methylene[4-(phenylamino)-1,3-phenylene]iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



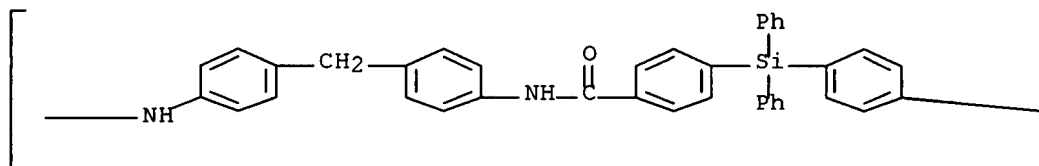
AB The thermal degradation of 12 structurally related high-mol. weight Si-containing aramids was studied by dynamic thermogravimetric anal. The analyses were carried out in air at 25-900° with a heating rate of 10°/min. Kinetic parameters of decomposition like activation energy and preexponential factor were determined from original thermograms. The thermal stability of aramids is a function of structure and mol. weight. The activation energy of decomposition and the pre-exponential factor depend upon the mol. weight of the polyamide. The chemical stability and degradation of aramid films are discussed.

IT 92488-96-5 92488-97-6 92488-98-7  
92489-02-6 92489-03-7 92489-04-8  
RL: PRP (Properties)  
(thermal degradation of, structure and mol. weight in relation to)

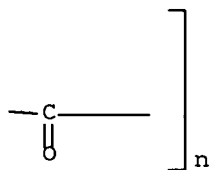
RN 92488-96-5 CAPLUS

CN Poly[imino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



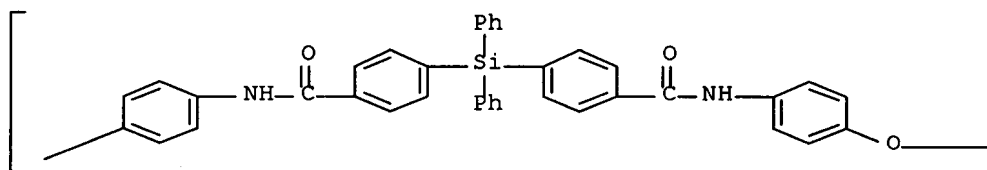
PAGE 1-B



RN 92488-97-6 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



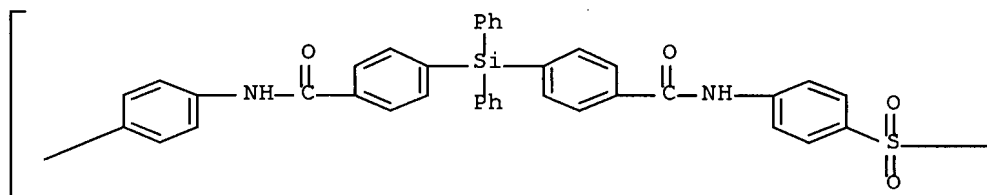
PAGE 1-B



RN 92488-98-7 CAPLUS

CN Poly[sulfonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



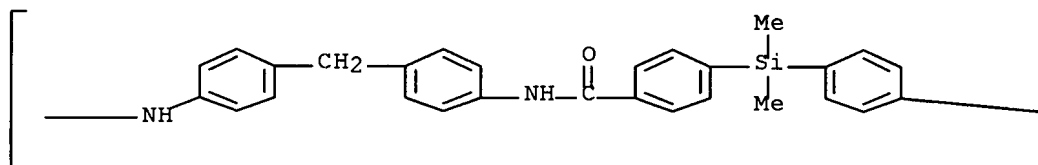
PAGE 1-B



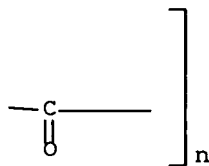
RN 92489-02-6 CAPLUS

CN Poly[imino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



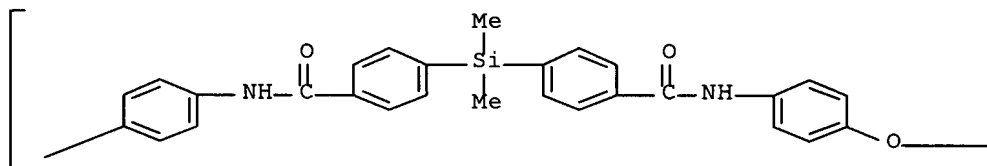
PAGE 1-B



RN 92489-03-7 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A

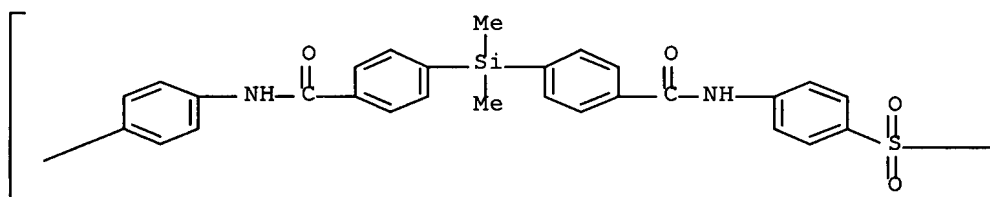


PAGE 1-B

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RN 92489-04-8 CAPLUS  
CN Poly[sulfonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-  
1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



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n

L14 ANSWER 44 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1986:34640 CAPLUS Full-text  
DOCUMENT NUMBER: 104:34640  
TITLE: Preparation of silicon-containing polymers: 6.  
Mechanical and electrical properties of organosilicon  
aramids  
AUTHOR(S): Jadhav, J. Y.  
CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Pune, 411008,  
India  
SOURCE: Polymer Communications (1985), 26(9), 286-8  
CODEN: POCOEF; ISSN: 0263-6476  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Four structurally related silicon-containing high-mol. weight aramids were  
prepared by low-temperature interfacial polymerization of bis(4-  
chlorocarbonylphenyl)dimethylsilane and aromatic diamines. The moderately

thick films of these polymers were prepared from 10% solution in dimethylacetamide onto a glass using the doctor blade technique. The mech. properties like tensile strength and elongation at break were measured. These films were also characterized by the elec. properties such as insulation resistance, volume resistivity, breakdown strength, dielec. constant and dissipation factor. The effect of diamine structure on the mech. and elec. properties of aramids was discussed.

IT 92489-02-6 92489-03-7

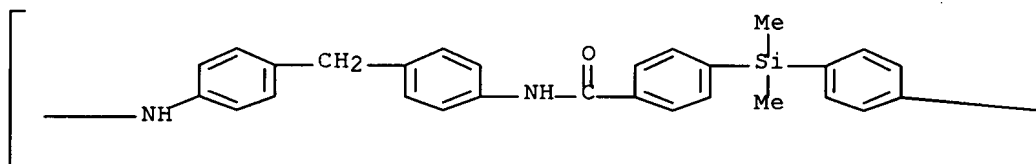
RL: PRP (Properties)

(elec. and mech. properties of)

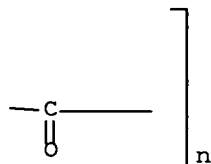
RN 92489-02-6 CAPLUS

CN Poly[imino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



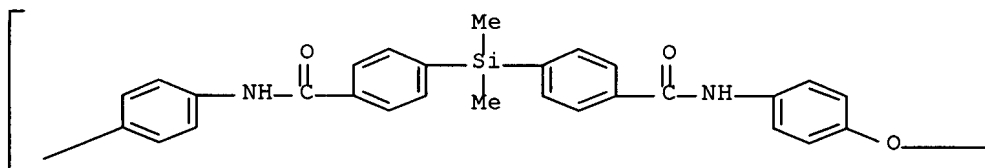
PAGE 1-B



RN 92489-03-7 CAPLUS

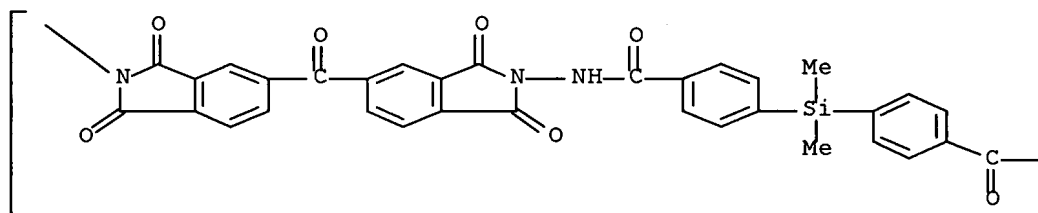
CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



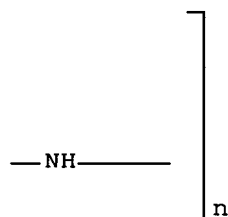
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L14 ANSWER 45 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:505378 CAPLUS Full-text  
 DOCUMENT NUMBER: 103:105378  
 TITLE: Preparation of silicon-containing polymers, 5. New organosilane poly(amide-imide)s from aromatic dianhydrides and dihydrazides  
 AUTHOR(S): Jadhav, Jalandar Y.  
 CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Pune, 411008, India  
 SOURCE: Makromolekulare Chemie, Rapid Communications (1985), 6(7), 457-61  
 CODEN: MCRCD4; ISSN: 0173-2803  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Polyimide-polyhydrazides were prepared from  $R_2Si(C_6H_4CONHNH_2-p)_2$  ( $R = Me$  or  $Ph$ ) and pyromellitic or benzophenonetetracarboxylic anhydride at  $\leq 10^\circ$  in DMF. Imidization of the intermediate polyamic acid-polyhydrazides was effected in vacuo at  $160^\circ$ . A 10% weight loss was observed when the polymers were heated at  $380-405^\circ$ .  
 IT 98060-33-4P 98060-34-5P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and properties of)  
 RN 98060-33-4 CAPLUS  
 CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)iminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino] (9CI) (CA INDEX NAME)





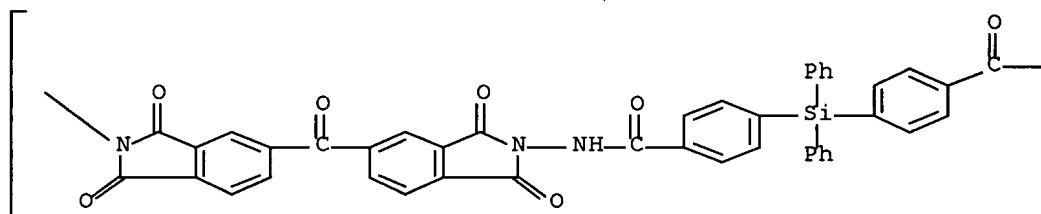
PAGE 1-B



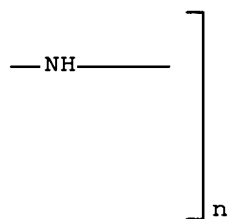
RN 98060-34-5 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)iminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino] (9CI) (CA INDEX NAME)

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L14 ANSWER 46 OF 56 \*CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:185589 CAPLUS Full-text

DOCUMENT NUMBER: 102:185589

TITLE: Silicon-modified polyimides: synthesis and properties

AUTHOR(S): Babu, G. N.

CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Bombay, 400076, India

SOURCE: Polyimides: Synth., Charact., Appl., [Proc. Tech. Conf. Polyimides], 1st (1984), Meeting Date 1982, Volume 1, 51-66. Editor(s): Mittal, K. L. Plenum: New York, N. Y.

CODEN: 53MJAJ

DOCUMENT TYPE: Conference

LANGUAGE: English

AB Polyimides prepared from silicon-containing dianhydrides and 4,4'-diaminodiphenylmethane gave polyamic acids having increased viscosities and polyimides having higher glass transition temps. (Tg) than those containing 3,3'-diaminodiphenylmethane. All polymers showed an initial weight gain during thermal gravimetric anal., probably due to oxidation of methylene groups to carbonyl. Insertion of siloxane groups into Si-containing dianhydrides lowered the Tg of the polymers by as much as 75° and increased solubility in polar aprotic solvents compared to polymers from silane-containing dianhydrides.

IT 96318-52-4P 96318-58-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(imide group-containing, preparation and glass transition and isothermal aging of)

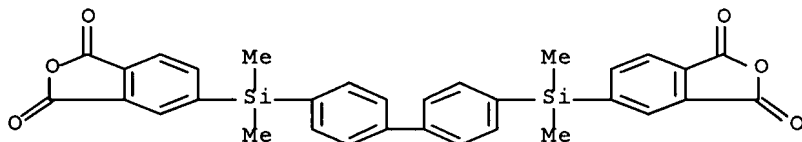
RN 96318-52-4 CAPLUS

CN 1,3-Isobenzofurandione, 5,5'-[[1,1'-biphenyl]-4,4'-diylbis(dimethylsilylene)]bis-, polymer with 4,4'-methylenebis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

CRN 96318-51-3

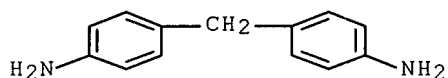
CMF C32 H26 O6 Si2



CM 2

CRN 101-77-9

CMF C13 H14 N2



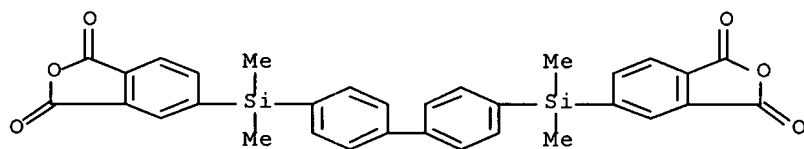
RN 96318-58-0 CAPLUS

CN 1,3-Isobenzofurandione, 5,5'-[[1,1'-biphenyl]-4,4'-diylbis(dimethylsilylene)]bis-, polymer with 3,3'-methylenebis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

CRN 96318-51-3

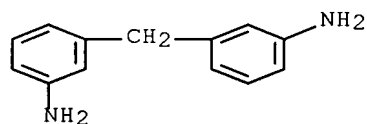
CMF C32 H26 O6 Si2



CM 2

CRN 19471-12-6

CMF C13 H14 N2



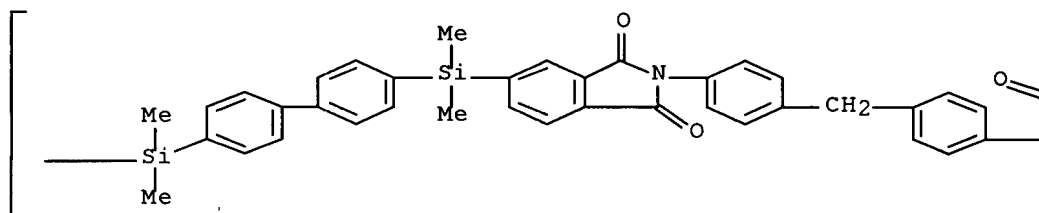
IT 96299-97-7P 96300-02-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and glass transition and isothermal aging of)

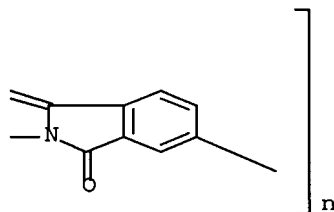
RN 96299-97-7 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylenemethylene-  
 1,4-phenylene(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-  
 diyl) (dimethylsilylene) [1,1'-biphenyl]-4,4'-diyl (dimethylsilylene)] (9CI)  
 (CA INDEX NAME)

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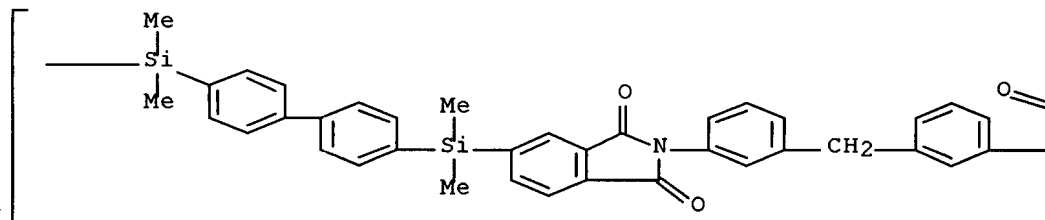


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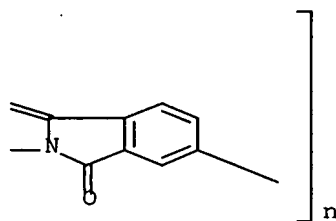


RN 96300-02-6 CAPLUS  
 CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,3-phenylenemethylene-1,3-phenylene(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)(dimethylsilylene)[1,1'-biphenyl]-4,4'-diyl(dimethylsilylene)] (9CI)  
 (CA INDEX NAME)

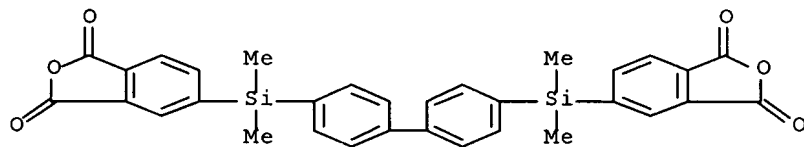
PAGE 1-A



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IT 96318-51-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and polymerization of)  
 RN 96318-51-3 CAPLUS  
 CN 1,3-Isobenzofurandione, 5,5'-[[1,1'-biphenyl]-4,4'-  
 diylbis(dimethylsilylene)]bis- (9CI) (CA INDEX NAME)



L14 ANSWER 47 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:7203 CAPLUS Full-text  
 DOCUMENT NUMBER: 102:7203  
 TITLE: Preparation of silicon containing polymers - III.

Synthesis and characterization of organosilicon  
azopolyamides

AUTHOR(S): Jadhav, J. Y.; Chavan, N. N.; Ghatge, N. D.  
CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Poona, 411008,  
India  
SOURCE: European Polymer Journal (1984), 20(10),  
1009-11  
CODEN: EUPJAG; ISSN: 0014-3057  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Si-containing azopolyamides were prepared from 4,4'-diaminoazobenzene and 4 structurally related silylenedibenzoyl chlorides. Polymerization was carried out by low-temperature interfacial polycondensation using aqueous CH<sub>2</sub>Cl<sub>2</sub>. The polymers were yellow to brown in color. They were characterized by visible and IR spectroscopy, x-ray diffraction, solubility, and solution viscosity. Thermal behavior was studied by dynamic thermogravimetry.

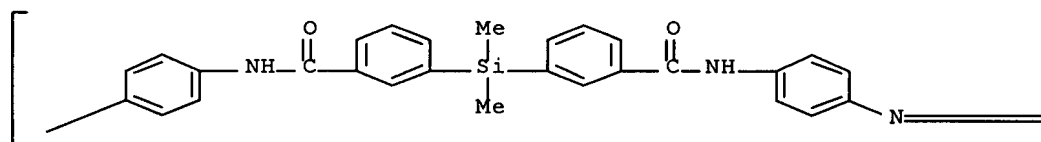
IT 93580-52-0P 93580-53-1P 93580-54-2P  
93610-35-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and properties of)

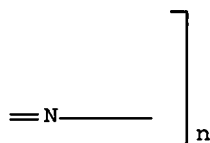
RN 93580-52-0 CAPLUS

CN Poly[azo-1,4-phenyleneiminocarbonyl-1,3-phenylene(dimethylsilylene)-1,3-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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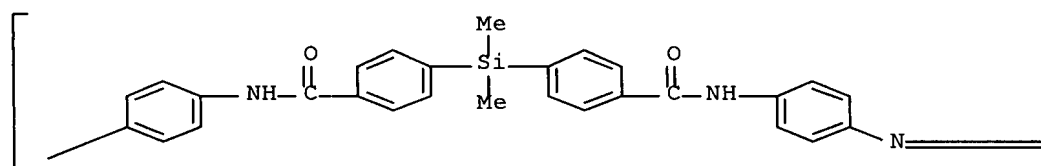
PAGE 1-B



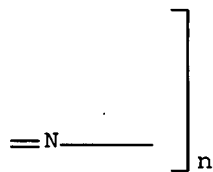
RN 93580-53-1 CAPLUS

CN Poly[azo-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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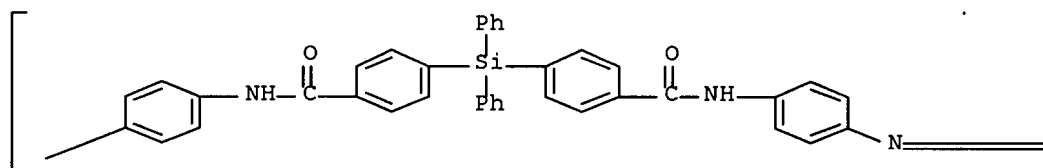
PAGE 1-B



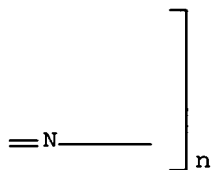
RN 93580-54-2 CAPLUS

CN Poly[azo-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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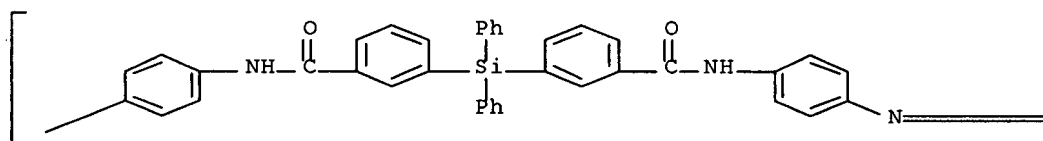
PAGE 1-B



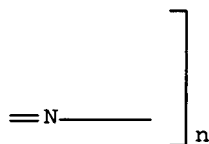
RN 93610-35-6 CAPLUS

CN Poly[azo-1,4-phenyleneiminocarbonyl-1,3-phenylene(diphenylsilylene)-1,3-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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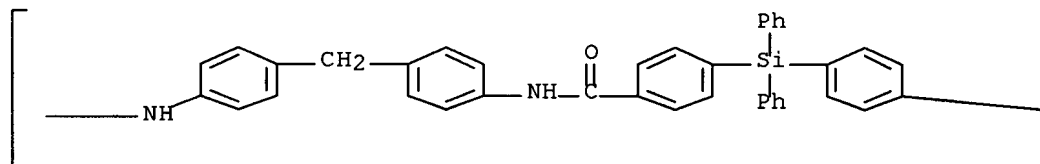


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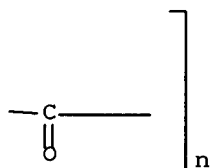


L14 ANSWER 48 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1984:572181 CAPLUS Full-text  
 DOCUMENT NUMBER: 101:172181  
 TITLE: Preparation of silicon containing polymers. II.  
 Effect of structure on the thermal stability of  
 organosilicon aramids  
 AUTHOR(S): Ghatge, N. D.; Jadhav, J. Y.  
 CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Pune, 411008,  
 India  
 SOURCE: Journal of Polymer Science, Polymer Chemistry Edition  
 (1984), 22(7), 1565-72  
 CODEN: JPLCAT; ISSN: 0449-296X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Bis(4-chlorocarbonylphenyl)dimethylsilane [25664-58-8] and bis(4-  
 chlorocarbonylphenyl)diphenylsilane [18708-44-6] were synthesized and  
 polycondensed (by low-temperature interfacial method) with 1,3-  
 phenylenediamine, 1,4-phenylenediamine, 4,4'-diaminobiphenyl, 4,4'-  
 diaminodiphenylmethane, 4,4'-diaminodiphenyl ether, and 4,4'-diaminodiphenyl  
 sulfone to give 12 structurally different high-mol. weight aromatic  
 polyamides. Most of the polyamides formed tough, transparent, and flexible  
 films, and were characterized by solubility, solution viscosity, IR, and glass  
 transition temperature. The thermal behavior of these aramids was studied by  
 dynamic thermogravimetry. The effect of diamine and acid dichloride  
 structures on the thermal stability of the aramids was discussed.  
 IT 92488-96-5P 92488-97-6P 92488-98-7P  
 92489-02-6P 92489-03-7P 92489-04-8P  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN  
 (Synthetic preparation); PREP (Preparation); PROC (Process)  
 (preparation and properties of)  
 RN 92488-96-5 CAPLUS  
 CN Poly[imino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl-1,4-  
 phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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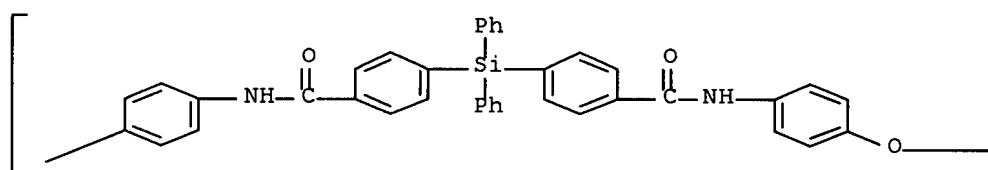
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RN 92488-97-6 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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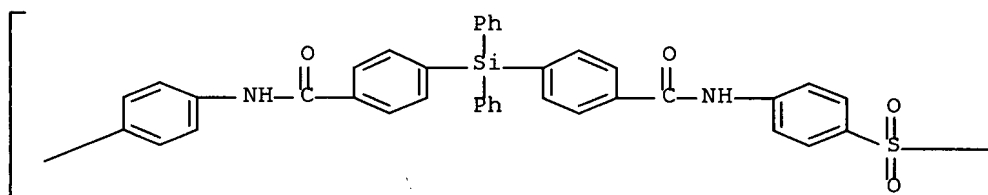
PAGE 1-B



RN 92488-98-7 CAPLUS

CN Poly[sulfonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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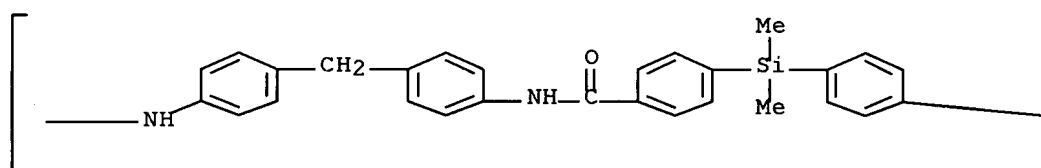
PAGE 1-B



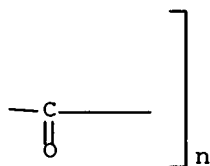
RN 92489-02-6 CAPLUS

CN Poly[imino-1,4-phenylenemethylene-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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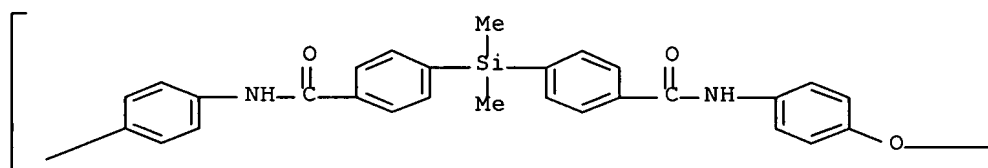
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RN 92489-03-7 CAPLUS

CN Poly[oxy-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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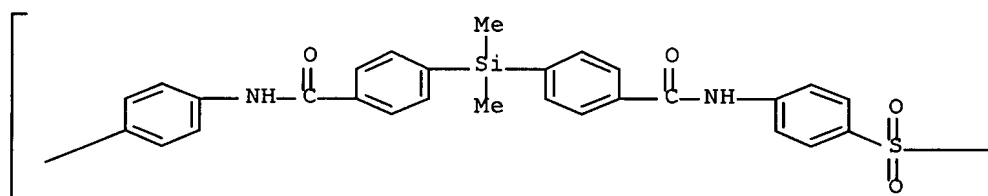


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$\left[ \begin{array}{c} \text{---} \\ \text{---} \\ \text{---} \end{array} \right]_n$

RN 92489-04-8 CAPLUS  
 CN Poly[sulfonyl-1,4-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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$\left[ \begin{array}{c} \text{---} \\ \text{---} \\ \text{---} \end{array} \right]_n$

L14 ANSWER 49 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1984:52098 CAPLUS Full-text  
 DOCUMENT NUMBER: 100:52098  
 TITLE: Preparation of silicon-containing polymers. I. Polyimides from dianhydrides and organosilicon diisocyanates  
 AUTHOR(S): Ghatge, N. D.; Jadhav, J. Y.  
 CORPORATE SOURCE: Div. Polym. Chem., Natl. Chem. Lab., Poona City, 411008, India  
 SOURCE: Journal of Polymer Science, Polymer Chemistry Edition (1983), 21(11), 3055-61  
 CODEN: JPLCAT; ISSN: 0449-296X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Si-containing polyimides were prepared by treating pyromellitic dianhydride or 3,3',4,4'-benzophenonetetracarboxylic dianhydride with dimethylbis(4-

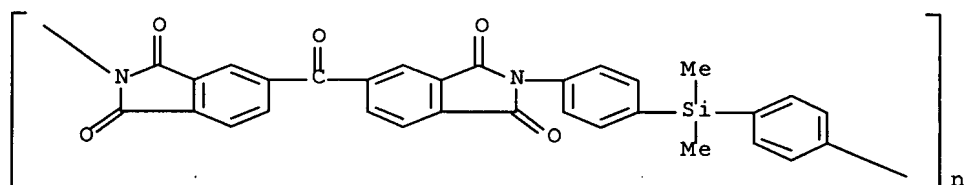
isocyanatophenyl)silane (I) [88457-54-9] or diphenylbis(4-isocyanatophenyl)silane (II) [88457-55-0]. Polyimides from II were more thermally stable than those from I.

IT 88480-88-0P 88480-90-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and thermal stability of)

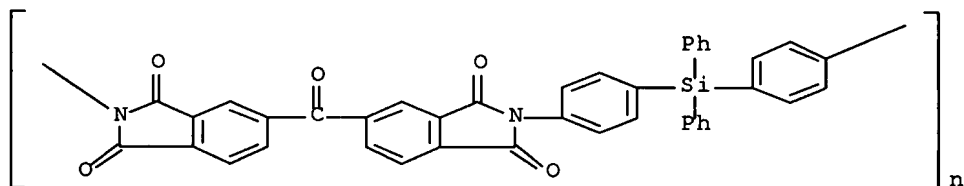
RN 88480-88-0 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(dimethylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



RN 88480-90-4 CAPLUS

CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene(diphenylsilylene)-1,4-phenylene] (9CI) (CA INDEX NAME)



L14 ANSWER 50 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:193485 CAPLUS Full-text  
 DOCUMENT NUMBER: 94:193485  
 TITLE: Thermoplastic polysiloxane elastomers  
 INVENTOR(S): Bargain, Michel; Lefort, Marcel  
 PATENT ASSIGNEE(S): Rhone-Poulenc S. A., Fr.; Tokico Ltd.  
 SOURCE: Brit., 16 pp.  
 CODEN: BRXXAA  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1581850	A	19801231	GB 1977-34236	19770815 <--
FR 2362183	A1	19780317	FR 1976-25533	19760817 <--
FR 2362183	B1	19790302		
PRIORITY APPLN. INFO.:			JP 1976-72511	A 19760619 <--
			FR 1976-25533	A 19760817 <--

AB Thermoplastic polysiloxane elastomers are prepared by treating a diethylenic Si compound with an  $\alpha,\omega$ -dihydrogenpolysiloxane to give the polymer  $\{-ZSiR2Z1Z2Z3Z2Z1SiR2Z[OSiR2]mOSiR2-\}_n$  (R = optionally halogen- or CN-substituted C1-10 alkyl; Z = C2-10 hydrocarbon radical; Z1 = mono- or polycyclic aromatic carbocyclic or heterocyclic radical; Z2 = CONH or CO2; Z3 = C1-13 aliphatic radical, C5-6 cycloaliph. radical, heterocyclic radical, or aromatic radical; m = 0-2000). Thus, 2.269 g p-phenylenebis(4-dimethylvinylsilylbenzamide) [66258-98-8], prepared from p-H2NC6H4NH2 [106-50-3], N-methylpyrrolidone [872-50-4], and 4-dimethylvinylsilylbenzoyl chloride [66259-08-3], was mixed with 10.0683 g  $\alpha,\omega$ -dihydrogenpolydimethylsiloxane (.hivin.Mn 2150) and 37.01 g dioxane, and the mixture was refluxed 5.33 h with addition of 0.3 cm<sup>3</sup> H2PtCl6-derived catalyst in PhMe. The solution was cast to a transparent film and dried 1.5 h at 100° to give an elastomeric polymer of softening point 100° which had unit structure - (CH2)2SiC6H4CONHC6H4NHCOC6H4SiMe2(CH2)2(SiMe2)28OSiMe2-.

IT 66258-99-9P 66259-01-6P 66259-03-8P

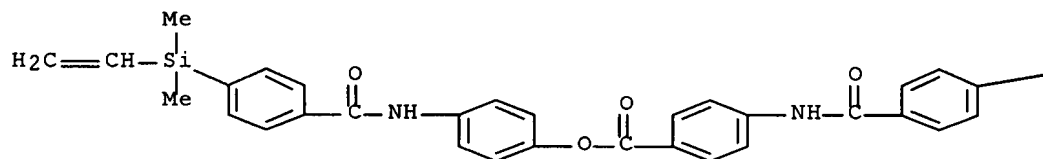
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrosilylation by, of hydrogen-terminated polydimethylsiloxanes)

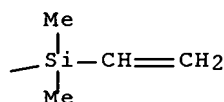
RN 66258-99-9 CAPLUS

CN Benzoic acid, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]-, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]phenyl ester (9CI) (CA INDEX NAME)

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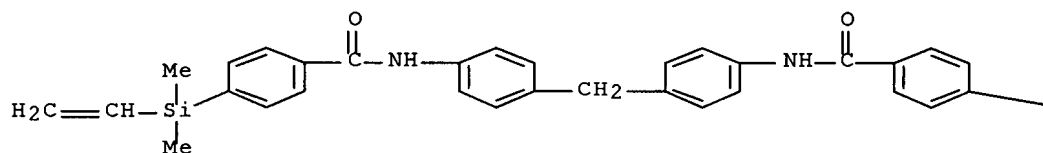
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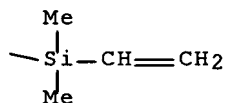
RN 66259-01-6 CAPLUS

CN Benzamide, N,N'-(methylenedi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI) (CA INDEX NAME)

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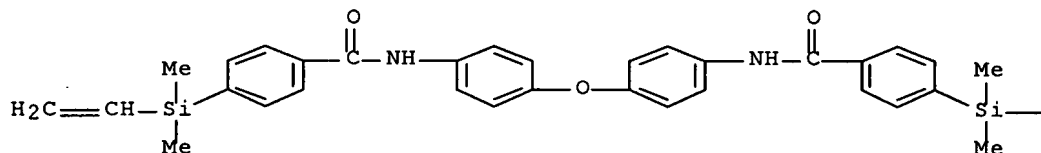
PAGE 1-B



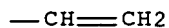
RN 66259-03-8 CAPLUS

CN Benzamide, N,N'-(oxydi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI)  
(CA INDEX NAME)

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IT 66258-99-9DP, polymer with dihydrogenpoly(dimethylsiloxane)

66259-01-6DP, polymer with dihydrogenpoly(dimethylsiloxane)

66259-03-8DP, polymer with dihydrogenpoly(dimethylsiloxane)

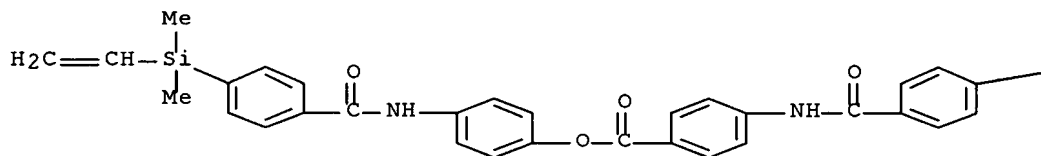
RL: IMF (Industrial manufacture); PREP (Preparation)

(rubber, thermoplastic, preparation of)

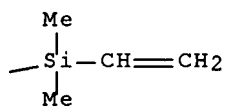
RN 66258-99-9 CAPLUS

CN Benzoic acid, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]-,  
4-[[4-(ethenyldimethylsilyl)benzoyl]amino]phenyl ester (9CI) (CA INDEX  
NAME)

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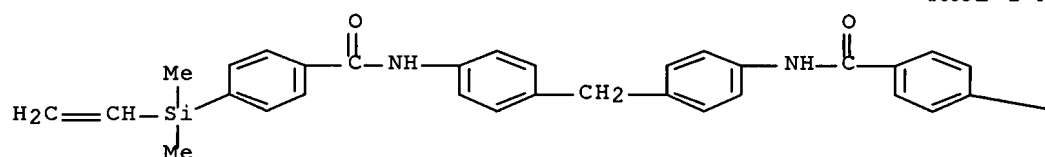
PAGE 1-B



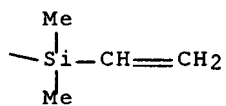
RN 66259-01-6 CAPLUS

CN Benzamide, N,N'-(methylenedi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)-  
(9CI) (CA INDEX NAME)

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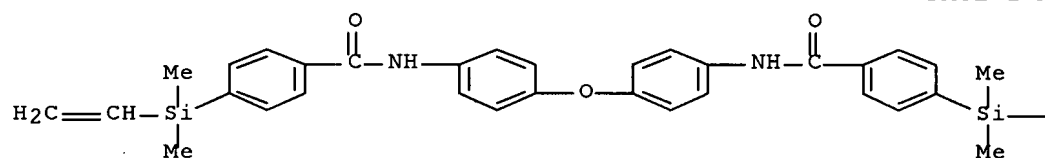
PAGE 1-B



RN 66259-03-8 CAPLUS

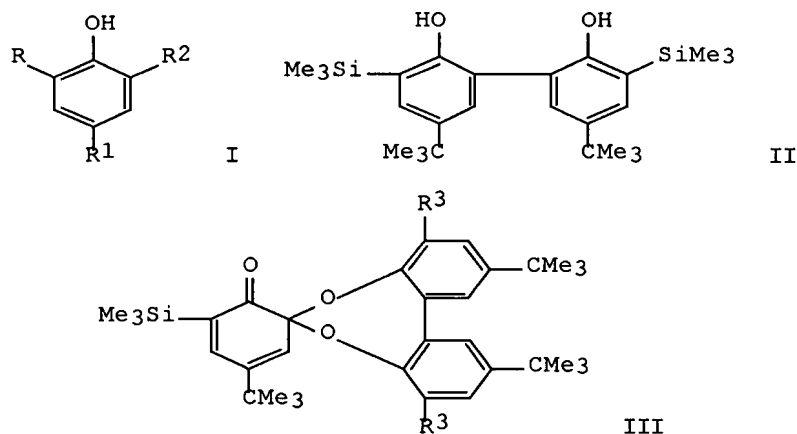
CN    Benzamide, N,N'-(oxydi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI)  
(CA INDEX NAME)

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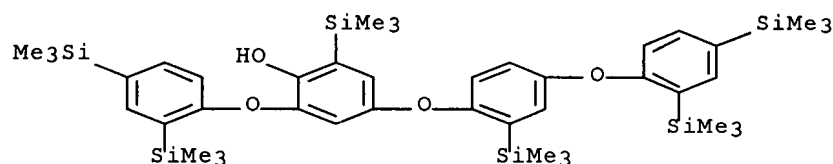


—CH=CH<sub>2</sub>

L14 ANSWER 51 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:103468 CAPLUS Full-text  
 DOCUMENT NUMBER: 94:103468  
 TITLE: Oxidation of disubstituted silicon-containing phenols  
 AUTHOR(S): Gorbunova, L. V.; Mamysheva, O. N.; Davydov, A. S.;  
 Kurskii, Yu. A.  
 CORPORATE SOURCE: Inst. Khim., Gorkiy, USSR  
 SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1980), (11), 2583-8  
 CODEN: IASKA6; ISSN: 0002-3353  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI



AB The oxidation of phenolic I (R = Me<sub>3</sub>Si, R<sub>1</sub> = Me<sub>3</sub>C, R<sub>2</sub> = H; R = R<sub>1</sub> = Me<sub>3</sub>Si, R<sub>2</sub> = H; R = R<sub>2</sub> = Me<sub>3</sub>Si, R<sub>1</sub> = H) with K<sub>3</sub>Fe(CN)<sub>6</sub> in presence of KOH, and the influence of O on the reaction was investigated. Thus, oxidation of I (R = Me<sub>3</sub>Si, R<sub>1</sub> = Me<sub>3</sub>C, R<sub>2</sub> = H) under Ar gave II and the oxidation products of II whereas under O, III (R<sub>3</sub> = Me<sub>3</sub>Si, H) and the oxidation products of II were formed.  
 IT 76707-32-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 76707-32-9 CAPLUS  
 CN Phenol, 2-[2,4-bis(trimethylsilyl)phenoxy]-4-[4-[2,4-bis(trimethylsilyl)phenoxy]-2-(trimethylsilyl)phenoxy]-6-(trimethylsilyl)-(9CI) (CA INDEX NAME)



L14 ANSWER 52 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:425056 CAPLUS Full-text  
 DOCUMENT NUMBER: 89:25056  
 TITLE: Polyethylenic silicon compounds  
 INVENTOR(S): Bargain, Michel; Lefort, Marcel  
 PATENT ASSIGNEE(S): Rhone-Poulenc Industries S. A., Fr.  
 SOURCE: Ger. Offen., 20 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2737026	A1	19780223	DE 1977-2737026	19770817 <--
FR 2362148	A1	19780317	FR 1976-25535	19760817 <--
FR 2362148	B1	19790302		
US 4208342	A	19800617	US 1977-817341	19770720 <--
JP 53034760	A	19780331	JP 1977-97706	19770815 <--
GB 1581848	A	19801231	GB 1977-34234	19770815 <--
BE 857831	A1	19780216	BE 1977-180211	19770816 <--
CH 624122	A5	19810715	CH 1977-9988	19770816 <--
NL 7709094	A	19780221	NL 1977-9094	19770817 <--
US 4263436	A	19810421	US 1978-943394	19780918 <--
PRIORITY APPLN. INFO.:			FR 1976-25535	A 19760817 <--
			US 1977-817341	A3 19770720 <--

AB (P-RC6H4)2CH2 (I) [66259-01-6], p-(p-RC6H4O2C)2C6H4 [66259-00-5], p-R2C6H4 [66258-98-8], R(CH2)6R [66259-05-0], p-(p-RC6H4)2C6H4 [66259-02-7], and 3,4-R2C6H3OC6H4R-4 [66421-13-4] with R = p-(H2C:CHSiMe2)C6H4CONH and 4 similar compds. were prepared The compds. were useful as monomers, crosslinking agents, etc. Thus, bis(4-aminophenyl)methane [101-77-9] in N-methylpyrrolidinone was treated with p-(H2C:CHSiMe2)C6H4COCl [66259-08-3] to prepare I.

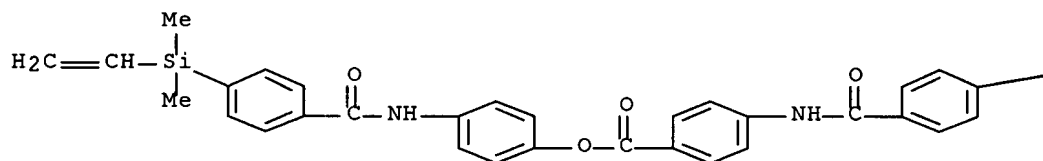
IT 66258-99-9P 66259-01-6P 66259-03-8P  
 66421-13-4P  
 RL: PREP (Preparation)  
 (manufacture of polymerizable)

RN 66258-99-9 CAPLUS

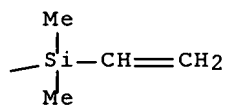
CN Benzoic acid, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]-, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]phenyl ester (9CI) (CA INDEX NAME)



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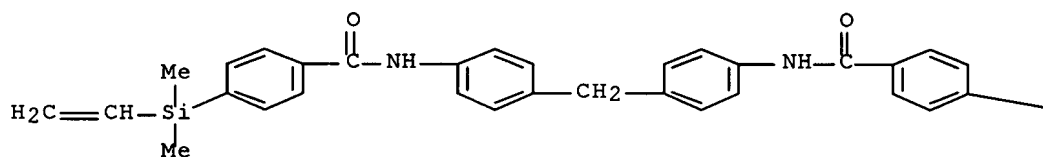
PAGE 1-B



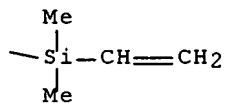
RN 66259-01-6 CAPLUS

CN Benzamide, N,N'-(methylenedi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)-  
(9CI) (CA INDEX NAME)

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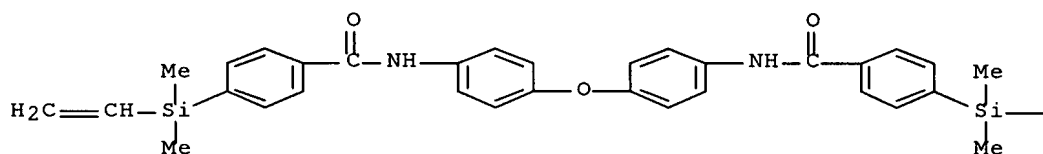
PAGE 1-B



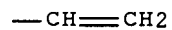
RN 66259-03-8 CAPLUS

CN Benzamide, N,N'-(oxydi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI)  
(CA INDEX NAME)

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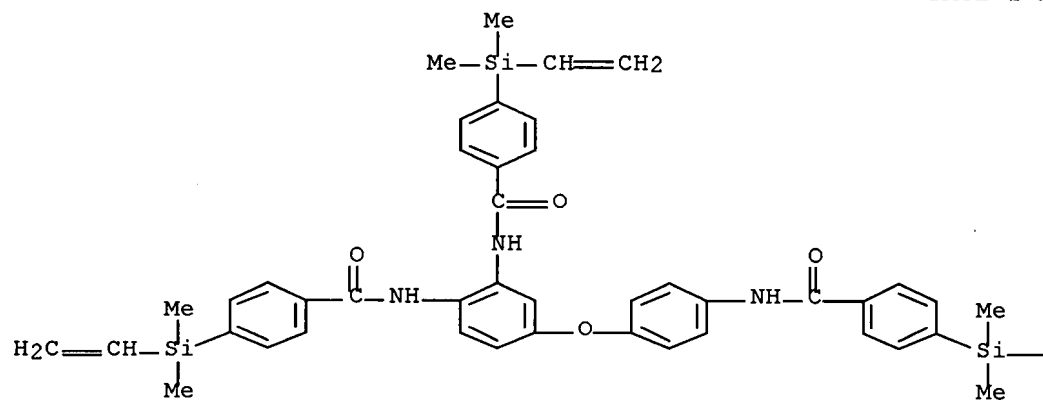
PAGE 1-B



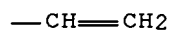
RN 66421-13-4 CAPLUS

CN Benzamide, N,N'-[4-[4-[[4-(ethenyldimethylsilyl)benzoyl]amino]phenoxy]-1,2-phenylene]bis[4-(ethenyldimethylsilyl)- (9CI) (CA INDEX NAME)

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ACCESSION NUMBER: 1978:171514 CAPLUS Full-text  
 DOCUMENT NUMBER: 88:171514  
 TITLE: Thermoplastic polysiloxane elastomers  
 INVENTOR(S): Bargain, Michel; Lefort, Marcel  
 PATENT ASSIGNEE(S): Rhone-Poulenc Industries S. A., Fr.  
 SOURCE: Ger. Offen., 31 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2737084	A1	19780223	DE 1977-2737084	19770817 <--
DE 2737084	C2	19911024		
FR 2362183	A1	19780317	FR 1976-25533	19760817 <--
FR 2362183	B1	19790302		
US 4145508	A	19790320	US 1977-817342	19770720 <--
JP 53034899	A	19780331	JP 1977-97704	19770815 <--
JP 61029373	B	19860707		
BE 857829	A1	19780216	BE 1977-180209	19770816 <--
CH 624130	A5	19810715	CH 1977-9986	19770816 <--
NL 7709093	A	19780221	NL 1977-9093	19770817 <--
NL 185085	B	19890816		
NL 185085	C	19900116		

## PRIORITY APPLN. INFO.:

FR 1976-25533 A 19760817 &lt;--

AB The title rubbers, useful in moldings, fibers, and films, have the structure  
 $[-Z1Si(R1)2Z2Z3Z4Z3Z2Si(R1)2Z1(Si(R2)2O)nSi(R2)2-]$  [Z1 = C2-10 hydrocarbylene;  
 R1, R2 = (substituted) hydrocarbyl; Z2 = arylene, heterocyclene; Z3 = -CONH-,  
 -CO2-; Z4 = hydrocarbylene, heterocyclene; n = 0-2000],. Thus, stirring 2.269  
 g N,N'-p-phenylenebis[4- (dimethylvinylsilyl)benzamide] [66258-98-8]  
 (prepared by reaction of Me2SiCl2 [75-78-5] with p-ClC6H4MgCl and CH2:CHMgCl  
 to give p-ClC6H4Si(Me)2CH:CH2 [66259-06-1], reaction with Mg and CO2 to give  
 CH2:CHSi(Me)2C6H4CO2H-p [66259-07-2], conversion with SOCl2 to the acid  
 chloride [66259-08-3], and reaction with p-C6H4(NH2)2 [106-50-3]), 10.0683 g  
 HSi(Me)2[OSi(Me)2]nH (mol. weight 2150, viscosity 26.5 cSt at 25°), 1 μ-  
 equivalent H2PtCl6, and 37.01 g dioxane 320 min under reflux gives a copolymer  
 with softening point 100° and intrinsic viscosity (CHCl3) 0.22 dL/g.

IT 66258-99-9P 66259-01-6P 66259-03-8P

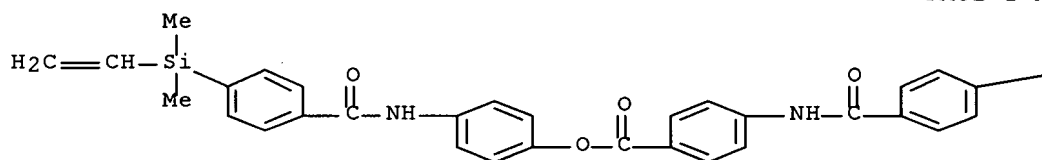
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
 (Reactant or reagent)

(preparation and polymerization of)

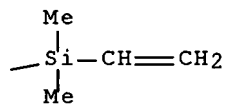
RN 66258-99-9 CAPLUS

CN Benzoic acid, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]-,  
 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]phenyl ester (9CI) (CA INDEX  
 NAME)

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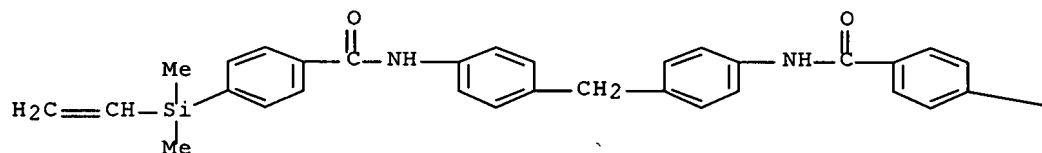
PAGE 1-B



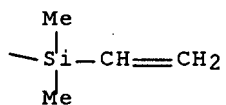
RN 66259-01-6 CAPLUS

CN Benzamide, N,N'-(methylenedi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)-  
(9CI) (CA INDEX NAME)

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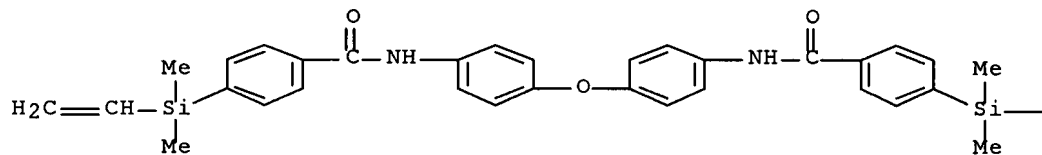
PAGE 1-B



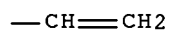
RN 66259-03-8 CAPLUS

CN Benzamide, N,N'-(oxydi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI)  
(CA INDEX NAME)

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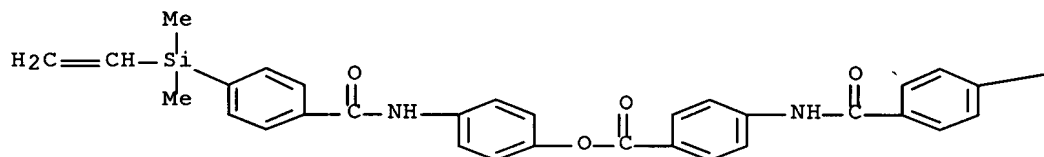


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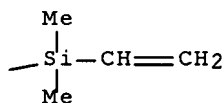


IT 66258-99-9D, polymer with  $\alpha$ -(dimethylhydrosilyl)- $\omega$ -hydrodimethylsiloxane 66259-01-6D, polymer with  $\alpha$ -(dimethylvinylsilyl)- $\omega$ -hydrodimethylsiloxane 66259-03-8D, polymer with  $\alpha$ -(dimethylhydrosilyl)- $\omega$ -hydrodimethylsiloxane  
 RL: USES (Uses)  
 (rubber, thermoplastic)  
 RN 66258-99-9 CAPLUS  
 CN Benzoic acid, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]-, 4-[[4-(ethenyldimethylsilyl)benzoyl]amino]phenyl ester (9CI) (CA INDEX NAME)

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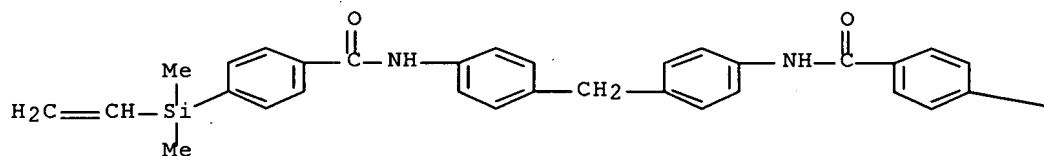


PAGE 1-B

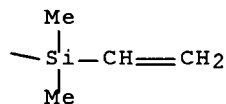


RN 66259-01-6 CAPLUS  
 CN Benzamide, N,N'-(methylenedi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI) (CA INDEX NAME)

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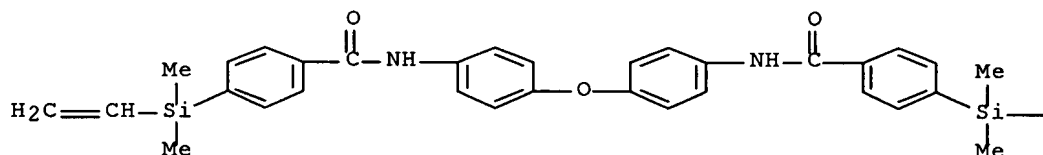
PAGE 1-B



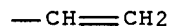
RN 66259-03-8 CAPLUS

CN Benzamide, N,N'-(oxydi-4,1-phenylene)bis[4-(ethenyldimethylsilyl)- (9CI)  
(CA INDEX NAME)

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L14 ANSWER 54 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:447121 CAPLUS Full-text

DOCUMENT NUMBER: 85:47121

TITLE: New aromatic silicon-containing polyamides

AUTHOR(S): Pratt, J. R.; Johnston, N. J.

CORPORATE SOURCE: Langley Res. Cent., NASA, Hampton, VA, USA

SOURCE: Polymer Engineering and Science (1976),  
16(5), 309-13

CODEN: PYESAZ; ISSN: 0032-3888

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 3,3'-Diaminodiphenylmethane, 3,3'-diaminobenzophenone, and 1-(3'-aminobenzyl)-4-(3-aminobenzoyl)benzene were polymerized with 6 Si-containing aromatic diacid chlorides to give polyamides which were soluble in m-cresol and AcNMe<sub>2</sub>, had glass transition temps. 178-254, and exhibited 5-10% weight losses at 331-400 and 354-440°, resp., in thermogravimetric analyses in static air.

IT 59913-69-8 59913-70-1 59913-71-2

59913-72-3 59913-73-4 59913-74-5

59913-75-6 59913-76-7 59913-77-8

59913-78-9 59913-79-0 59913-80-3

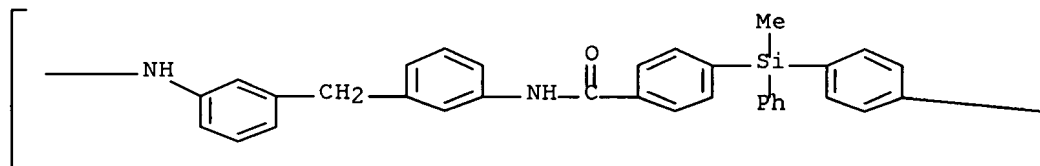
RL: USES (Uses)

(soluble)

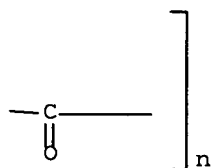
RN 59913-69-8 CAPLUS

CN Poly[imino-1,3-phenylenemethylene-1,3-phenyleneiminocarbonyl-1,4-phenylene(methylphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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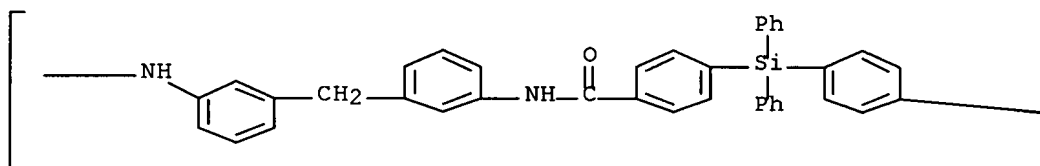
PAGE 1-B



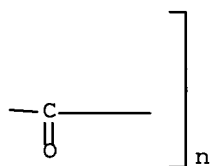
RN 59913-70-1 CAPLUS

CN Poly[imino-1,3-phenylenemethylene-1,3-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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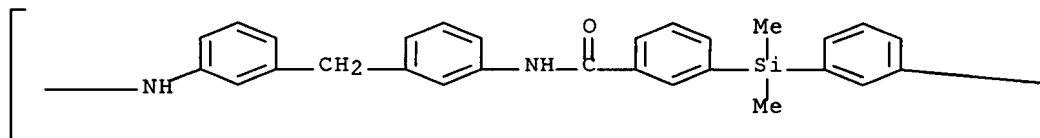


RN 59913-71-2 CAPLUS

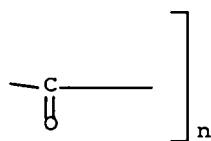
CN Poly[imino-1,3-phenylenemethylene-1,3-phenyleneiminocarbonyl-1,3-

phenylene(dimethylsilylene)-1,3-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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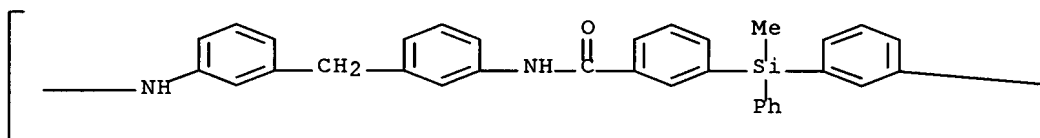
PAGE 1-B



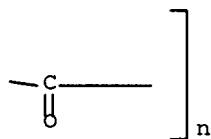
RN 59913-72-3 CAPLUS

CN Poly[imino-1,3-phenylenemethylene-1,3-phenyleneiminocarbonyl-1,3-phenylene(methylphenylsilylene)-1,3-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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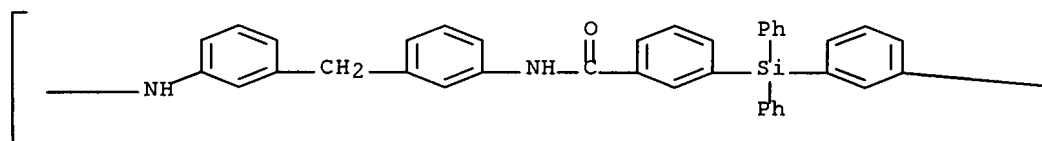


RN 59913-73-4 CAPLUS

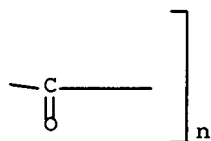
CN Poly[imino-1,3-phenylenemethylene-1,3-phenyleneiminocarbonyl-1,3-phenylene(diphenylsilylene)-1,3-phenylenecarbonyl] (9CI) (CA INDEX NAME)



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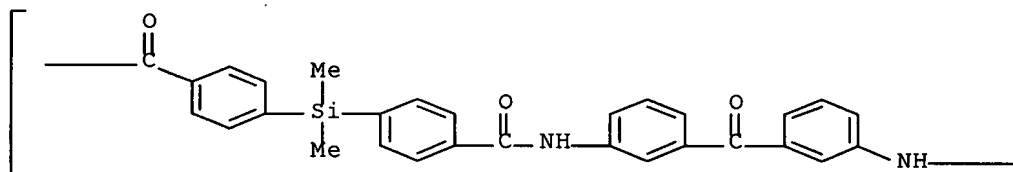
PAGE 1-B



RN 59913-74-5 CAPLUS

CN Poly[imino-1,3-phenylenecarbonyl-1,3-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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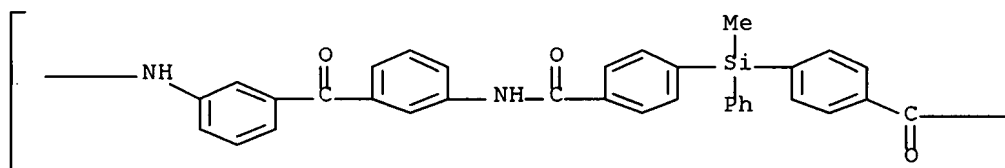
PAGE 1-B



RN 59913-75-6 CAPLUS

CN Poly[imino-1,3-phenylenecarbonyl-1,3-phenyleneiminocarbonyl-1,4-phenylene(methylphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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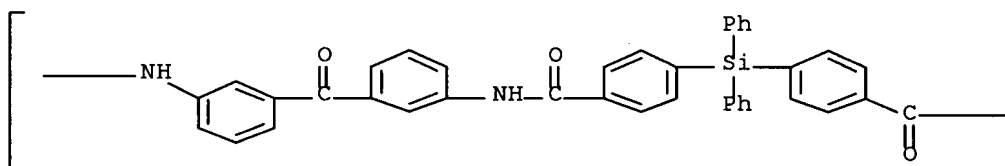
PAGE 1-B



RN 59913-76-7 CAPLUS

CN Poly[imino-1,3-phenylenecarbonyl-1,3-phenyleneiminocarbonyl-1,4-phenylene(diphenylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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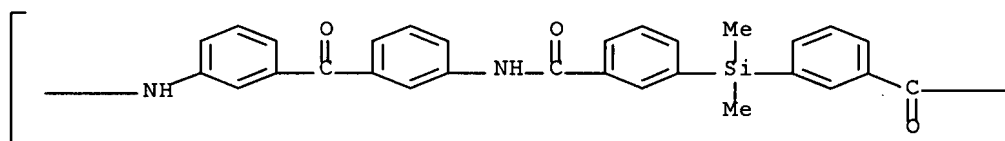
PAGE 1-B



RN 59913-77-8 CAPLUS

CN Poly[imino-1,3-phenylenecarbonyl-1,3-phenyleneiminocarbonyl-1,3-phenylene(dimethylsilylene)-1,3-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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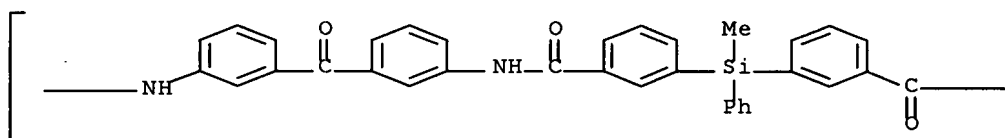


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RN 59913-78-9 CAPLUS  
 CN Poly[imino-1,3-phenylenecarbonyl-1,3-phenyleneiminocarbonyl-1,3-phenylene(methylphenylsilylene)-1,3-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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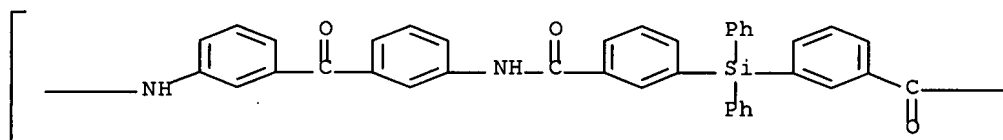


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RN 59913-79-0 CAPLUS  
 CN Poly[imino-1,3-phenylenecarbonyl-1,3-phenyleneiminocarbonyl-1,3-phenylene(diphenylsilylene)-1,3-phenylenecarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



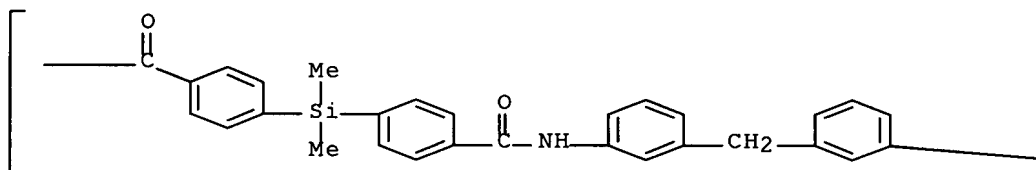
PAGE 1-B



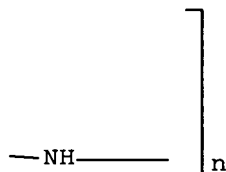
RN 59913-80-3 CAPLUS

CN Poly[imino-1,3-phenylenemethylene-1,3-phenyleneiminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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L14 ANSWER 55 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1973:159742 CAPLUS Full-text

DOCUMENT NUMBER: 78:159742

TITLE: Silylated polyphenyl ethers. Their preparation and some physical properties

AUTHOR(S): Fink, Walter

CORPORATE SOURCE: Monsanto Res. S.A., Zurich, Switz.

SOURCE: Helvetica Chimica Acta (1973), 56(1), 355-63

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: German

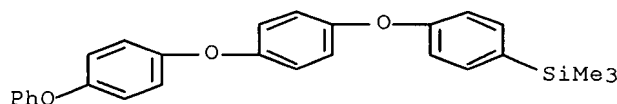
AB Silylation of aromatic polyphenyl ethers with Me<sub>3</sub>SiCl, Me<sub>2</sub>SiPhCl, and MeSiPh<sub>2</sub>Cl gave products such as PhOC<sub>6</sub>H<sub>4</sub>SiMe<sub>2</sub>Ph, PhOC<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>SiMe<sub>3</sub>, and [PhOC<sub>6</sub>H<sub>4</sub>OC<sub>6</sub>H<sub>4</sub>SiMe<sub>2</sub>]<sub>2</sub>O, with improved low-temperature fluidity without change of thermal stability.

IT 41441-72-9P 41714-47-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

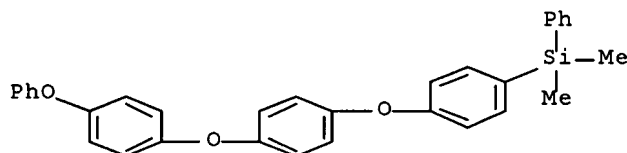
RN 41441-72-9 CAPLUS

CN Silane, trimethyl[4-[4-(4-phenoxyphenoxy)phenoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 41714-47-0 CAPLUS

CN Silane, dimethyl[4-[4-(4-phenoxyphenoxy)phenoxy]phenyl]phenyl- (9CI) (CA INDEX NAME)



L14 ANSWER 56 OF 56 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1971:88644 CAPLUS Full-text

DOCUMENT NUMBER: 74:88644

TITLE: Aromatic silicon compounds. III. Trimethylsilyl and triphenylsilyl-substituted anthraquinone dyes

AUTHOR(S): Hopff, Heinrich; Deuber, J. M.; Gallegra, P.; Said, A.

CORPORATE SOURCE: Tech.-Chem. Lab., Eidg. Tech. Hochsch., Zurich, Switz.

SOURCE: Helvetica Chimica Acta (1971), 54(1), 117-35

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Anthraquinone vat dyes, acid dyes, and disperse dyes containing Me<sub>3</sub>Si or Ph<sub>3</sub>Si substituents (.apprx.75 compds.) were prepared by treating monoaminoanthraquinones with silylated mono-, di-, tri-, and tetracarboxylic acids, or di-aminoanthraquinones with mono- or dicarboxylic acids. The silylated vat dyes showed greater affinity for cotton and greater light fastness than similar vat dyes with Me<sub>3</sub>CC<sub>6</sub>H<sub>4</sub>CO substituents. The silyl substituents caused practically no shift in the absorption maximum of the dyes. The fastest of silylated acid dyes was similar to that of nonsilylated dyes. The silylated disperse dyes showed insufficient affinity for polyamide fibers. 2,5-Bis-(trimethylsilyl)-p-xylene was prepared by Wurtz-Fittig

reaction of 2,5-dichloro-p-xylene with Me<sub>3</sub>SiCl and was oxidized by KMnO<sub>4</sub> to 2,5-bis(trimethylsilyl)terephthalic acid.

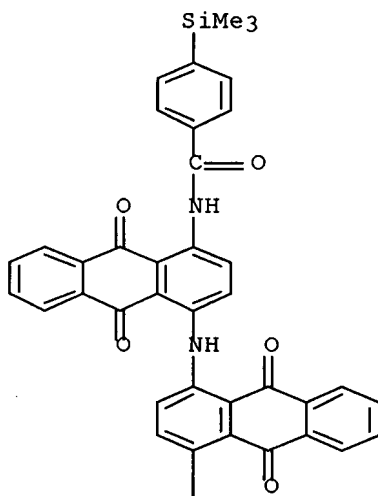
IT 31858-91-0P 32290-18-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

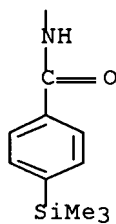
RN 31858-91-0 CAPLUS

CN Benzamide, N,N'-(iminodi-4,1-anthraquinonylene)bis[4-(trimethylsilyl)-  
(8CI) (CA INDEX NAME)

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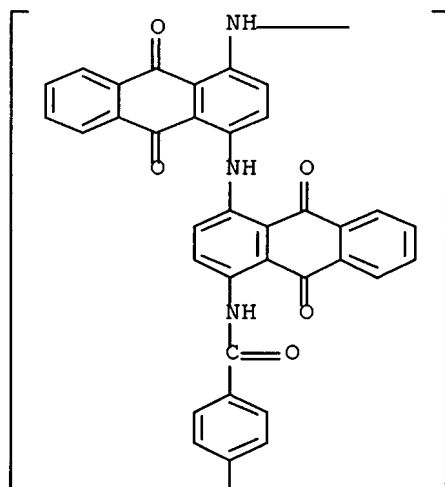
PAGE 2-A



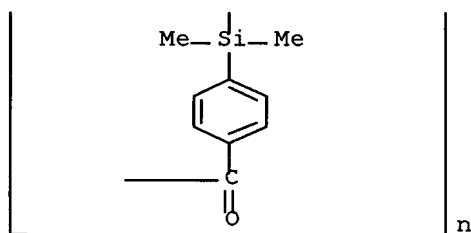
RN 32290-18-9 CAPLUS

CN Poly[imino(9,10-dihydro-9,10-dioxo-1,4-anthracenediyl)imino(9,10-dihydro-9,10-dioxo-1,4-anthracenediyl)iminocarbonyl-1,4-phenylene(dimethylsilylene)-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)

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=&gt; d his nofil

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 L3 699 SEA SSS FUL L1

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FILE 'STNGUIDE' ENTERED AT 16:55:18 ON 31 AUG 2007

FILE 'REGISTRY' ENTERED AT 17:00:51 ON 31 AUG 2007

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